

The Regional Environmental Council: An Investigation of Socioeconomic and Environmental Injustices

An Interactive Qualifying Project Report Submitted to the Faculty of WORCESTER POLYTECHNIC INSTITUTE In partial fulfillment of the requirements for the Degree of Bachelor of Science

Submitted to:

Project Advisors: Professor Chickery Kasouf, WPI

Project Sponsors: Kwabena Owusu-Ansah

Benito Vega

Submitted by:

Katie Wright

Brittany DiCapua

Kristen Schleier

Amanda Houyou

Submitted on: February 25, 2013

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Authorship

All group members contributed equal work to this project and paper. Katie focused on Environmental and Socioeconomic injustice, and the Regional Environmental Council. Brittany focused on the mapping of Worcester communities, abandoned buildings and proposal plan. Amanda's focus was with community discussion, prioritized risk, and sustainable suggestions. Kristen focused on the CARE grant and sustainable actions.

Acknowledgements

The authors would like to acknowledge the number of people who assisted us. We would like to thank our sponsors at the Regional Environmental Council, Benito Vega, Community Organizer and Outreach Coordinator for Environmental Health and Justice Program and Kwabena Owusu-Ansah, Director of the Environmental Health and Justice Program for their guidance, input and support throughout the term. We would also like to thank Patricia Hanesworth from the Worcester Senior Center, for allowing us to table-sit and conduct our focus group discussions there. Additionally we would like to thank, the members of the Worcester Senior Center for their active participation in our community discussions. Finally we would like to thank our project advisor, Chickery Kasouf, for his timely feedback and guidance throughout the project.

Abstract

Environmental and socioeconomic injustice is the unequal distribution of environmental hazards and social concerns based on race and income respectively. The Regional Environmental Council, a local non-profit organization in Worcester, has actively addressed these issues and is applying for a Level II CARE Grant from the Environmental Protection Agency. Our team identified social concerns including criminal activity, environmental hazards, and building abandonment, and mapped incidents of each in low-income and high-income neighborhoods. We also prioritized social issues relevant to senior citizens in the Worcester community, including homelessness, drug abuse, and other criminal activity.

Executive Summary

Environmental justice is 'the fair treatment and meaningful involvement of all people regardless of race, color, national origin, or income with respect to the development, implementation, and enforcement of environmental laws, regulations, and policies'. Socioeconomic justice is the fair treatment of individuals and communities with regards to social and economic issues. In locations experiencing socioeconomic injustice there is a higher vulnerability to social hazards, such as violent and property crime, homelessness, drug use and trafficking, and an increased number of abandoned buildings. Using these definitions, the team demonstrated that environmental and socioeconomic injustice existed in Worcester.

Worcester, Massachusetts

Evidence has shown that low-income neighborhoods in Worcester face greater environmental and social risks compared to higher income neighborhoods. The five lowest income neighborhoods of Worcester include: Main South, Piedmont, Quinsigamond Village, Oak Hill and Belmont Hill. The average household income for Worcester low-income communities averages about \$20,000. The average income for higher income communities ranges between \$60,000 and \$100,000. The higher income communities studied were Broadmeadow, forest Grove and West Tatnuck and Newton Square. After mapping crime rates in low and high-income communities, socioeconomic and environmental injustice became severely apparent. In the low-income neighborhoods, there was a high incidence of crime, building abandonment and environmental hazards. Conversely, higher income neighborhoods faced little of the same hazards. Injustice is

clearly prevalent in Worcester and the Regional Environmental Council (REC) has a great opportunity to implement change.

Project Goals and Project Objectives

The goal of this project was to prove and document both socioeconomic and environmental injustice existing in the designated lower income communities of Worcester (Main South, Piedmont, Oak Hill, Belmont Hill, and Quinsigamond Village), contrasting conditions with high-income neighborhoods in the city. The team identified the main risks, and areas that were cause for immediate action. The results of this research would be applied to the Regional Environmental Council of Worcester's application for the Level II CARE Grant and the allocation of funds would be focused on implementing significant changes in these communities. The team worked with the Regional Environmental Council from December 2012 to late February 2013, and developed several objectives to guide our research and work process. The objectives included:

- 1. Prove the environmental and social injustice exists within the five communities
- 2. Investigate the differences in risk between high and low-income areas
- 3. Collect community perspective
- 4. Prioritize risk and discover what concerns are cause for immediate action
- 5. Recommend future solutions

The objectives kept the team on track for delivering a successful report to the Regional Environmental Council.

Methodology

The previous IQP team worked with the REC to develop helpful visuals, which mapped environmental hazards in each of the five communities. Our team utilized these and added to them to prove the existence of social and environmental injustice. Our team researched criminal activity and building abandonment in Worcester neighborhoods and overlaid our findings on the original maps done by the previous REC team. The final maps displayed significant injustice, especially when compared to maps created similarly for three higher income neighborhoods. In addition, our team employed other research methods to support future REC funding. As a stipulation of the Level I CARE Grant program, the input of community perspective is necessary for advancement to the Level II Grant. Therefore, the team led focus group discussions. REC had completed focus groups for adult and youth populations in Worcester, but they still needed the senior perspective. Our team contacted the Worcester Senior Center and organized two focus group discussions. The discussions provided the team with information on environmental health issues, socioeconomic issues, community assets, community vulnerabilities and concerns cause for immediate action. The information was transcribed into templates to better organize and display the data. The team gained the necessary community perspective, but hard statistics were still needed to back up the claims made by the community. The team researched several topics including homelessness, drug use, criminal activity and building abandonment present in Worcester and Massachusetts as a whole. The statistical data gave the project a grounded foundation upon which to support the community claims.

Findings and Recommendations

The senior participants all agreed that criminal activity is rampant in Worcester and has caused much fear within the community. Issues of homelessness and employment were also social concerns that were voice. The senior's ultimately believed there has been a general blind eye turned towards the city and it's concerning problems. When discussing environmental and health concerns, most explained that there was a severe lack of environmental cleanup programs as well as resources for health care within the city.

The team believes that abandoned buildings present in Worcester enable criminal misconduct and environmental harm. The team has proposed a renovation plan for a vacant warehouse located on 40 Pullman Street to become a skill enrichment center, providing individuals of all ages with skills and techniques necessary for competitive career opportunities. The aspirations of this center are to provide individuals with a sense of self-worth and potentially change the directions of their future. With receiving the Level II CARE grant, and funding from other organizations, this renovation could be possible.

1.0 Introduction

Environmental justice is the fair treatment and meaningful involvement of all people regarding of race, color, national origin, or income with respect to the development, implementation, and enforcement of environmental laws, regulations, and policies (EPA, 2013). In the ideal situation, the city of Worcester would not be plagued by social and environmental injustice. There would be no disparity in the level of social or environmental crimes due to location or income. Prevalent issues such as criminal activity, abandoned buildings, and homelessness have become a significant problem for the Worcester community (NECN, 2008). A plethora of environmental hazards such as air pollutants, garbage poisons, chemical runoff, and mold are present in the lower income communities of Worcester and are continuously growing (REC, 2012).

The growing presence of these hazards puts the residents of lower income neighborhoods at a higher environmental and social risk. The risks of asthma and other environmentally based medical conditions are just as threatening as criminal misconduct or difficult economic situations to the Worcester residents. The residents are at risk because they reside in a neighborhood that is more susceptible to these hazards (REC, 2012). Both social and environmental injustices are critical issues-in Worcester, with the lowest income neighborhoods becoming susceptible to the most extreme conditions. Currently, very little is being done to address the environmental and social injustice present in the communities.

By looking at the five lowest income neighborhoods in Worcester, evidence suggests that residents are being exposed to a higher level of toxins, garbage and other social hazards. Previous research concludes that environmental hazards are related to

income. For example, the Environmental Protection Agency's blueprint for action on environmental justice stated, "pollution is not a problem faced equally by everyone in our society. Minorities and low-income communities often face higher exposure to environmental hazards by living near waste sites, by being subjected to harmful chemicals in poorly maintained housing, or through exposure to pesticides in farm fields." (EPA, 2009). Many cannot afford to live in a neighborhood that remains environmentally and socially just, thus they must settle for less. The people living in the affected communities are subjected to degrading situations due to the environment and quality of living. The high level of injustice has adverse effects, not only to low-income neighborhoods, but also to Worcester as a whole.

The team investigated the major social and economic risks in each neighborhood and prioritized the most pressing and relevant concerns plaguing the Worcester neighborhoods. After prioritization, the team ultimately developed a plan of action and contributed suggestions for alleviating the most pressing concerns. The Regional Environmental Council (REC) wants to make a significant difference in the living situation of the residents in lower income neighborhoods (REC, 2012). The team mapped socioeconomic concerns in each neighborhood and compared them to concerns in higher income communities, and found a relationship between the living quality in high-income and low-income communities. The data collection allowed the team and REC staff to determine similarities within the present issues and then prioritize the main concerns. The goal of the project was to provide REC with enough evidence of socioeconomic injustice and other community concerns. This evidence will allow REC to apply for and utilize the Level II CARE grant effectively to make changes within the fraught neighborhoods.

Residents in the low-income neighborhoods are at a tangible risk the provided data will allow REC to offer assistance and relief.

2.0 Background

2.1 Environmental Justice- An Overview

Environmental justice is the concept that no matter one's race, origin, or economic status, all people should live with equivalent environmental standards and protection (Faber, 2012). Existing communities have poor living environments that do not meet standards set by the Environmental Protection Agency (EPA) for healthy and safe living. The standards outlined by the EPA to enforce regulations of environmental protection can be seen in Figure 2.1.

EPA issues regulations to Congress passes laws to Environmental problem implement the laws is identified address env. problems Compliance Assistance helps the regulated community understand Enforcement actions are and comply with Compliance monitoring initiated when the regulated Protection of public regulations community does not comply, health and the assesses compliance through or cleanup is required environment inspections and other activities

EPA's Enforcement Process

Figure 2.1: Environmental Protection Agency's Enforcement Process (EPA, 2013)

Low-income and minority communities tend to have unequal environmental regulation enforcement, and do not receive equivalent levels of environmental protection.

Environmental justice efforts focus on such inequalities and on providing protection to communities that are at risk.

Environmental justice efforts are gaining currency in the United States, especially for minority and immigrant populations, and those communities of low socioeconomic status (REC, 2012). There are many claims as to why environmental injustice exists in the United States, and especially in certain communities. Across the United States there are thousands of communities facing these issues and Worcester is no exception. Main

South, Oak Hill, Belmont Hill, Quinsigamond Village, and Piedmont are the five lowest income communities in Worcester (Regional Environmental Council, 2012). They are in severe disrepair and are environmentally unhealthy.

One question often asked is "how is environmental injustice measured?"

(Regional Environmental Council, 2012). The department of Sociology and

Anthropology from Northeastern University conducted a study that analyzed the geographic and social distribution of ecological hazards in 368 communities in

Massachusetts (Faber and Krieg, 2005). The data support the claim that injustice is predominant in low-income and minority communities. In Table 2.1, data shows that low and low-medium income communities have the highest count of hazardous waste sites (EPA, 2000).

Median household income	Number of towns (%	W	hazardo	S	h w	P tier I- azadou aste site	s es	Sup	wns wi	sites_	waste sites	waste sites
(1990 U.S. Census category)	of all towns)	Count	(%)	Mean	Count	(%)	Mean	Count	(%)	Mean	per town	per square mile
\$0 to \$29,999 (low)	50 (13.6)	6,044	(28.7)	120.9	987	(29.1)	19.7	5	(10.4)	0.10	120.9	13.9
\$30,000 to \$39,999 (medium-low)	137 (37.2)	6,863	(32.6)	50.1	1,101	(32.5)	8.0	14	(29.2)	0.10	50.1	4.1
\$40,000 to \$49,999 (medium-high)	114 (31.0)	4,771	(22.7)	41.9	742	(21.9)	6.5	17	(35.4)	0.15	41.9	3.1
\$50,000 or more (high)	67 (18.2)	3,360	(16.0)	50.2	559	(16.5)	8.3	12	(25.0)	0.18	50.2	3.2
Totals	368 (100)	21,038	(100)		3,389	(100)		48	(100)		63.3	5.0

Table 2.1: Class-Board Disparities at Hazardous Waste Sites (EPA, 2000)

Table 2.2 demonstrates that the cities with the highest percentage of non-white population have the highest average number of hazardous waste sites (EPA, 2000). In the communities with the highest population of non-whites, there were approximately 27

waste sites per square mile. In the community with the lowest non-white population there were only 9 waste sites per square mile (Faber, 2002).

Non-White population (1990 U.S. Census category)	Number of towns (% of all towns)		hazardo aste site (%)		h	P tier I- azadou aste site (%)	S	ĺ	owns wi J.S. EPA e <u>rfund s</u> (%)	4	Average number of DEP hazardous waste sites per town	Average number of DEP hazardou waste sites per square mile
5-14.99% (low-moderate)	49 (13.3)	5,219	(24.8)	106.5	849	(25.1)	17.3	16	(33.3)	0.33	106.5	9.0
15-24.99% (moderate-high)	9 (2.4)	1,708	(8.1)	189.8	257	(7.6)	28.6	3	(6.3)	0.33	189.8	23.4
25% or more (high)	11 (3.0)	1,787	(8.5)	162.5	314	(9.3)	28.6	0	(0.0)	0.00	162.5	27.2
Totals	368 (100)	21,038	(100)		3,389	(100)		48	(100)		63.0	

Table 2.2: Race-Based Disparity at Hazardous Waste Sites (EPA, 2000)

These two sets of data combined show that in Massachusetts, low-income and minority communities are facing a proportionally greater amount of environmental hazards and health risks. The Northeastern University study also analyzed the number of hazards per town and ranked them based on the information collected. Out of the 368 towns evaluated, the top three are shown in the Table 2.3. Worcester had the poorest ranking with highest number of hazards of all three Massachusetts towns studied (Faber and Krieg, 2005).

Table 2.3: Hazardous Points in Three Massachusetts' towns						
Town	Total hazard Points	Total Point Ranking (1 being the worst)	Hazard Points Per square Mile	Overall Per square mile ranking		
Worcester	1698	1	44	20		
Boston-Downtown	1449	2	321	1		
Springfield	1222	3	37	28		

Table 2.3: Hazardous Points in Three MA Towns (Faber, Krieg, 2005)

The information shows that Worcester has the most hazards. It is apparent that low-income and minority communities in the three major cities of Massachusetts are facing high social and environmental risk. These risks pose a significant threat to the public health.

2.2 Socioeconomic Injustice- An Overview

Socioeconomic injustice is the concept that lower income communities are more susceptible to social hazards such as a higher crime rate, homelessness and an increased number of abandoned buildings (Mechanic and Tanner, 2007). The Worcester community is also facing socioeconomic injustice. Generally speaking, urban areas are more susceptible to the social and environmental crimes previously mentioned. However, there is an injustice present in the city of Worcester (Duhart, 2000). Injustice can be seen in the lower income communities compared to higher income areas also located in Worcester. The level of social risk in the lower income communities has been found to be much higher. Programs designed to alleviate social injustice in Worcester have been put into place, however the problem still remains. This problem has often been viewed as an issue that cannot be fixed. Nevertheless, solutions can be proposed, given the proper resources.

2.2.1 Criminal Activity

Criminal activity is a universal problem for any urban area. However, in Worcester, the level of activity is centralized around certain areas. The crime rate appears to be highest in the lower income communities as displayed by maps in Appendix A.

Worcester has seen an overall decrease in crime, however the problem has not been fixed. In 2010, the rates of violent crime and property crime in Worcester were higher than the national average by 137.5 percent and 15.7 percent respectively (City-Rating, 2010). The rates for 2013 are projected to decrease, but not drastically. Criminal activity is a continuous problem in Worcester and the centralization of such activity in the lower income areas is another indicator of social injustice.

2010 Crime (Actual Data)*	Incidents	2013 Crime (Projected Data)*	Incidents
Aggravated Assault	1,350	Aggravated Assault	1,397
Arson	10	Arson	0
Burglary	1,910	Burglary	1,800
Forcible Rape	19	Forcible Rape	0
Larceny and Theft	3,687	<u>Larceny</u> and Theft	3,458
Motor Vehicle Theft	593	Motor Vehicle Theft	446
Murder and Manslaughter	7	Murder and Manslaughter	7
Robbery	368	Robbery	406
Crime Rate (Total Incidents)	7,935	Crime Rate (Total Incidents)	7,423
Property Crime	6,190	Property Crime	5,678
Violent Crime	1,744	Violent Crime	1,808

Figure 2.2: Crime Data Breakdown (City-Ranking, 2010)

The breakdown of criminal activity shown in Figure 2.2 identifies a real risk for the residents of Worcester (City-Rating, 2010). The level of aggravated assault alone is an indicator of the danger present in the city. Figure 2.3 shows that Worcester also experiences a higher crime index than both interstate and national records in both property and violent crime (City-Ranking, 2010).



Figure 2.3: Worcester Property and Violent Crime Index (City-Ranking, 2010)

There is significant cause for concern pertaining to social injustice when referring to crime rates in Worcester. The levels of criminal activity present are difficult to ignore and it is evident that initiative must be taken to correct this social injustice (City-Rating, 2010).

2.2.2 Homelessness

The social issue of homelessness in Worcester can be seen every day. Homeless citizens of Worcester often panhandle in order to survive. Recently, the city of Worcester issued an ordinance pertaining to panhandling around the city. The ordinance limits the ability of Worcester residents to beg on the streets and solicit for food and money. This ordinance poses a significant problem to the livelihood of the homeless. The new ordinance may push the homeless population farther into illegal activity in order to survive (Worcester City Council, 2013). Evidence has shown that panhandling is a daily resource for homeless and without the ability to provide for themselves or their families, there becomes a real problem. The problem of homelessness in Worcester has decreased in the past years; however it remains an ever-present issue to the community. Homelessness can often become a gateway to other illegal activity, which leads to an

increase in risk for the community. The desperation for resources forces homeless to participate in illegal situation. The Massachusetts Department of Elementary and Secondary Education (ESE) in partnership with the Center for Disease Control (CDC) administers a survey twice a year in randomly selected high schools in Massachusetts. The survey measures risk related behavior among youth. One of the survey questions investigated homelessness in comparison to risky behavior.

Table 2.4: Survey Percentages	% of Homeless Students	% of Housed Students
Protective Factors		
Have an adult they can talk to at school	49	72
Earn good grades (A, B, or C)	77	93
Participate on a sports team in the past year	53	60
Eat breakfast each morning	17	38
Risk Behaviors		
Members of a gang	32	5
Had alcohol in the past 30 days	67	39
Used marijuana in the past month	57	27
Ever used heroin	21	1
Felt sad or hopeless for 2 or more weeks	47	24
Made a suicide attempt that resulted in injury	17	2
Had sexual contact against their will	43	8
Ever been or gotten someone pregnant	28	4

^{*} ESE has adopted Section 725(2) of the McKinney-Vento Homeless Education Assistance Act, 2002 (Title X, Part C, *No Child Left Behind*) regarding the definition of homeless children and youth.

Table 2.4: Survey Percentages (Massachusetts Dept. of ESE, 2011)

The study concluded that homelessness can lead to a higher participation in risky behavior, and confirmed that homeless youth are more likely to engage in hazardous activity (Chester, 2011). 32 percent of homeless students took part in gang activity compared to the 5 percent of housed students. This statistic contributed to the evidence of social injustice in both categories of criminal activity and homlessness. Homeless students were also more likely to engage in hard drugs and were more susceptible to depression. These statistics are relevant to the socioeconomic issues present within

Worcester. Homeless youth are a greater problem for the city of Worcester than homeless adults. If youth are exposed to the trials and challenges connected to homelessness earlier on in life, the results of such hardship will plague the city for longer than if applied to an adult. These youth have been pushed onto the wrong path and the projected results of homelessness do not aid them to getting back on track for a successful future. A state report done by Root Cause, an organization that conducts social impact research, in 2011 concluded that there are about 102 homeless youth in Worcester between the ages of 13 and 24. Of these, 40 percent could not access aid services for various reasons including transportation, being put on wait lists, no response from service providers and ultimately not know where to go for help (RootCause, 2012).

Table 2.5: Disparities Between Housed And Homeless Youth In Worcester

Issue	Housed	Homeless
Pregnant or parenting	12%	54%
In custody of social services	13%	24%
Released from juvenile detention	6%	11%
In school	72%	48%
Employed	37%	19.5%
Experienced violence at home	17%	23%

Table 2.5: Disparities between Housed and Homeless Youth in Worcester (RootCause, 2012)

Homelessness of youth has shown to be a reoccuring problem and one that is a root cause to other social issues as well. In the Massachusetts Housing and Shelter Alliance Survey, 62 percent of homeless youth reported "some current or past drug use. Marijuana, unprescribed medications and cocaine were the most common drugs used." (Hammel, 2011). From this suvey a connection can be made between homelessness and drug use, but additionally one can be made between homelessness and criminal activity. Table 2.5 shows that only 48 percent of homeless remain in school, leaving idle time for other activities.

Leaving school, is related to increased criminal activity later in life (Hammel, 2011). 23 percent of homeless youh also experienced violence in the home. A violent environment can often lead to a violent and criminal future. The chart also confirms the connection to violence as 11 percent of homeless youth, in Worcester, have been released from juvenile detention. Homelessness has shown to be a root problem for the social issues arising in the Worcester community (Hammel, 2011).

Homelessness has decresed slightly in Worcester County. Nevertheless it remains a pressing issue due to its connection to other social-economic issues and social injustice present within the lower income communities. From the graph published in the Worcester Telegram in 2011, homelessness is a decreasing problem, but one that is still relevant. As of 2011 there were still 1,315 homeless individuals in Worcester County; 919 of them were homeless families (Hammel, 2011). The decrease could be a result of the Three Year Plan to End Homelessness, a task force developed by the city managers of Worcester (Levy and Mulford, 2007).

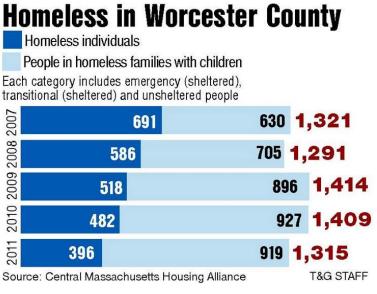


Figure 2.4: Homeless in Worcester County (Hammel, 2011)

The program began in 2007 and has continued to slow down the rate of homelessness in Worcester. The plan would slowly wean off the Shelter environment and look at placing homeless back into appropriate housing with the resources to help them stay there. The task force was broken down into five goals and with individual objectives for each.

- 1. Goal 1: Paradigm Shift to Housing First
 - a. Increase affordable housing options, develop new permanent supportive housing for homeless
 - b. Eliminate homeless shelter within 3 years
 - c. Close the PIP shelter
 - d. Develop assessment and triage service for families
 - e. Develop an assessment and triage sevice for individuals that includes aggressive outreach and case managements
- 2. Goal 2: Expand Homeless Prevention Resources
 - a. Increase availablity of flexible funds and case management sevices

- b. Increase educational efforts and develop early warning system to target to people at risk of homelessness
- 3. Goal 3: Improve Service Strategies
 - a. Target chronically homeless
 - b. Improve the housing and service system
 - c. Stregthen skills and supports for homeless
- 4. Goal 4: Improve Oversight and Accountability of the Housing and Service
 System by the City of Worcester
 - a. Help coordinate and monitor the performance of Worcester housing and service programs for homeless
 - b. Develop a city commission for homelessness
- 5. Goal 5: Ensure that Programs are Sited Responsabilities

The proposed task force seemed to impact the issue of homelessness in Worcester; however it did not achieve its goal of completely eliminating the problem. Perhaps if the proposed initiatives are continuously put into practice there is hope for the future. However, homelessness currently remains a very existent problem in Worcester and it has even been linked to other social crimes present in the area.

2.2.3 Abandoned Buildings

Abandoned buildings have proven to be another cause of social injustice.

Evidence shows that they have been a site for criminal activity, a shelter for the homeless and a source for neglected environmental hazards (Shane, 2012). Figure 2.5 highlights all the abandoned buildings located in Worcester.

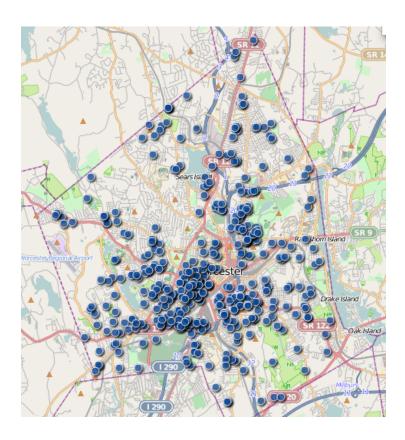


Figure 2.5 Abandoned Buildings in Worcester (McCafferty, 2012)

Figure 2.5 shows abandoned buildings have become a sizeable issue in the city of Worcester. The connection between crime, environmental hazards and homelessness to abandoned buildings has created a more significant problem for the community.

Abandoned buildings are becoming centralized locations for social injustice (Shane, 2012).

The difference between vacant and abandoned buildings is very small. For vacant buildings, the owner is known, taxes are current and the building is "unoccupied". For abandoned buildings, the owner is unknown, takes are unpaid and the building is not legally occupied (Shane, 2012). Maintaining an abandoned building is typically the responsibility of the community in which it is located. However, the large amount of

abandoned buildings located in Worcester, makes it difficult to maintain. Thus, these buildings fall into extreme disrepair and become sources of hazard (Jennings, 2006). In Jennings' work it is stated that:

"Abandonment of property is the most striking indication of neighborhood decline. Large-scale abandonment threatens the stability of neighborhoods and undermines the value of investments made by other property owners. The literature indicates that abandonment and decline of property can be considered as a contagious phenomenon. Fire is intertwined with abandonment as both a cause and an undesired side effect. Abandonment usually signals the end of a building's productive life. Real estate market conditions, difficulty in obtaining financing for renovation or repair, withdrawal of fire insurance, and declining economic fortunes of tenants all contribute to abandonment. In declining areas, the use value of a building will frequently exceed its market value. Any damage to the building sufficient to vacate it can lead to abandonment by the owner."

Building abandonment has become an increasingly alarming issue for the Worcester area. The resources to alleviate the contagion are not available to the Worcester community. There has not been a necessity to repair or maintain these buildings properly and so they remain in neglect. They are such large and intimidating structures that it is easy to perceive them as too big of a problem for a community to handle. Residents believe that they have no power to control the issue (Shane, 2012).

Evidence also shows that abandoned buildings have been a source for arson and drug trafficking (Shane 2012). An empty, secluded and inconspicuous location is the perfect place for illegal activity. Not only is there little traffic around these areas, but few investigations are done on the buildings. These buildings are neglected and therefore are ideal locations for the homeless and for criminal activity. Arson is a dangerous problem connected with abandoned buildings. In December of 1999, the Worcester Cold Storage building erupted into flames. Since 1988, this building has been vacant and is often

vandalized and used by the homeless as a shelter (Thomspon, 2000). The fire was started by a homeless couple who resided there at the time. The fire started small, but due to the combustible material left in the building, it quickly spread. The fire was fought for more than twenty hours, but it proved too great of a fire for the multiple departments on the scene to handle. The building eventually collapsed and the remains of the building were removed. Six firefighters lost their lives that night, in a fire that could have been prevented (Thomspon, 2000). The danger presented by the copious amounts of abandoned buildings located in the city of Worcester is abundant. It poses a significant risk to the residents of Worcester and those who work to protect it.

From the evidence, it is clear that there is a social injustice in Worcester. The residents of this city are at a greater risk for social damage. They are at a greater risk of being victims of crime, to becoming homeless and to the dangers that are housed in neglected abandoned buildings (Shane, 2010). Social injustice is an increasingly hazardous issue and it poses great risk to the city of Worcester.

2.3 A Focus on Worcester Communities

2.3.1 Main South, Worcester Massachusetts

Main South neighborhood was first purchased by activist, Eli Thayer, in the 1840's in hopes of expanding and developing the city of Worcester. After the establishment of Clark University in the 1890s, Main South was a flourishing industrial and commercial establishment. Main South continued to flourish until the 1950s when it began to suffer from recession in response to World War II (Clark University, 2012).

The rapid decline of Main South began in the 1980s, when two very influential corporations, Crompton and Knowles, abandoned the neighborhood (O'Keefe, 2010).

With the departure of these companies, many Main South locals were left unemployed. Triple-decker apartments, apartment buildings, and homes were left abandoned due to unemployment and poverty. These buildings were left neglected or burned, landlords became absent, and buildings began to decay. As a result, the historical value of the neighborhood diminished. Crime and violence became two very prevalent issues in Main South (O'Keefe, 2010). These issues were so pressing that Clark University contemplated relocating its campus, but after much debate decided the urban environment is what gave the University its "edge" (O'Keefe, 2010). Over the years, gang activity increased in this community and crimes such as theft, arson, violence, and even murder became prevalent (O'Keefe, 2010).

Conditions in Main South remain poor, though Clark University works towards rebuilding the neighborhood (Frolik, 2012). In the 1980s, Clark University, in efforts to improve Main South, developed the "University Park Partnership" which strove to improve living conditions, increase housing availability, and develop recreational centers within the neighborhood (Frolik, 2012). Various programs currently existence to lesson abandonment and home foreclosures. Clark University's dedication and commitment to improving Main South conditions will never taper (Frolik, 2012).

Employment rates are still drastically lower than other Worcester communities. Approximately 78% of Main South residents are considered lower class, economically speaking, and approximately one fourth of the community lives in poverty and environmental distress to this day (O'Keefe, 2010). Figure 2.6 depicts the boundaries of the Main South neighborhood.

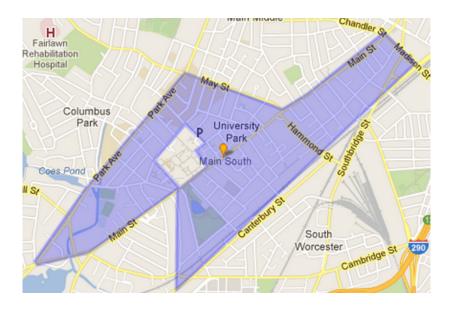


Figure 2.6: Main South neighborhood

2.3.2 Piedmont, Worcester Massachusetts

In the 1950's, Piedmont was historically infamous for its "dollar drain" to the city of Worcester (Berger, 1966). Annually, the city of Worcester earmarks approximately 4.7 million dollars for the neighborhood of Piedmont to aid in welfare, protection, and education, while only 1 million of this is returned to the city (Berger, 1966). Fire protection costs are almost three times as high in Piedmont than other neighborhoods due to crime and arson. Police spend 3.2 times longer fighting crime in Piedmont than in any other area in Worcester (The Evening Gazette, 1966). Poverty rates are in the Piedmont neighborhood with the median annual income less than \$40,000 (HomeFinder, 2013). Piedmont struggles with sanitation regulation, inadequate housing, extreme poverty, and violence (The Evening Gazette, 1966). Many efforts have been undertaken to improve the living conditions of the Piedmont neighborhood, however poverty and devastation are still prevalent. Figure 2.7 shows a map of the boundaries of the Piedmont neighborhood.

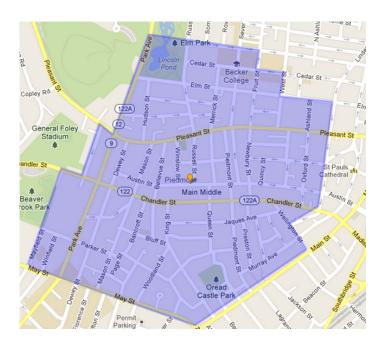


Figure 2.7: Piedmont neighborhood

2.3.3 Quinsigamond Village, Worcester Massachusetts

Europeans founded Quinsigamond Village in the 1600s and the neighborhood attracted a swell of Irish and Swedish immigrants. It was well known as a farming community before the American Revolution and in the 19th century it was home to many successful manufacturing companies ("Quinsig Village and City Swedes" pg 36-42).

Quinsigamond Village was located on the Blackstone Canal, which stimulated industrial development and efficiently located trading sites in the community ("Quinsig Village and City Swedes," pg 36-42).

The deterioration of Quinsigamond Village was due to its surplus of landfills, dumping grounds, salvage yards, and garbage incinerators. Because of these dumping sites, much of the land, particularly highway and urban sites, became contaminated and toxic (Lee, 2003). In 1988, one of the largest landfills in Quinsigamond, the Greenwood St. Landfill, was closed in hopes of improving the condition of the neighborhood. Over the years the old cap has collapsed and the landfill has been neglected and abandoned

(Worcester Telegram and Gazette, 2003). The Blackstone Canal, which was once strengthened the community, became a developmental block and essentially an environmental hazard due to contamination (Worcester Telegram and Gazette, 2003). Figure 2.8 is a representation of the Quinsigamond Village neighborhood.

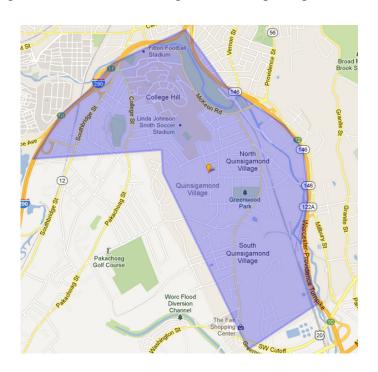


Figure 2.8: Quinsigamond Village neighborhood

2.3.4 Oak Hill, Worcester Massachusetts

The Oak Hill neighborhood, which was once a competitive railroad community, slowly morphed into an area of crime, poverty, and environmental injustice. Oak Hill is a diverse neighborhood with a splurge of foreign and ethnic residents (Oak Hill Community Development Center, 2011). The average income for residents is approximately \$38,000 lower than that of the Massachusetts average, making Oak Hill one of several poor communities in the Worcester area (Oak Hill Community

Development Center, 2011). Crime rates are extremely high in Oak Hill, and mainly relate to instances of vandalism and public disturbance. Due to a lack of resources, the neighborhood is in a state of environmental distress with unkempt and littered properties that are a hazard to public health and safety (Oak Hill Community Development Center, 2011). Education rates are substandard, and youth academic testing scores are lower than average compared with other areas of the state (Oak Hill Community Development Center, 2011). Figure 2.9 is a map of Oak Hill neighborhood boundaries.



Figure 2.9: Oak Hill neighborhood

2.3.5 Belmont Hill, Worcester Massachusetts

The median household income in the Belmont Hill neighborhood is \$26,000 per year, making it one of the low-income neighborhoods in Worcester (Weichert Relators, 2013). Criminal rates in Belmont Hill are double that of the national average, with

robbery being an extremely prevalent issue (Weichert Relators, 2013). Figure 2.10 displays the boundaries of the Belmont Hill neighborhood.

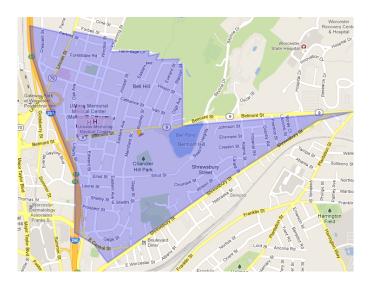


Figure 2.10 Belmont Hill neighborhood

Table 2.6 depicts ethnic, financial, and formal education percentage values for the five focal neighborhoods (Bowen, Hodge, Ilacqua, McDonough, 2012).

Table 2	2.6: Percentage values for	or the five local neighbor	hoods
Neighborhood	% Non-White (Non-Hispanic)	% with Annual Household Income < \$30,000/year	% Graduated from High School (Includes equivalency)
Main South	69%	61%	70%
Piedmont	74%	71%	63%
Belmont Hill	61%	53%	77%
Oak Hill	54%	37%	79%
Quinsigamond Village	33%	36%	90%

2.4 The Regional Environmental Council (REC)

The Regional Environmental Council is an organization that was founded in 1971 in hope of fostering healthy, sustainable and environmentally just communities in the Worcester area (Regional Environmental Council, 2012). The organization's mission

statements emphasize the three main areas of concern: development; organization; and advocating for policies that support the organization's ideals. REC has worked for over forty years to address the issues in environmental justice that have impacted communities in the Worcester area. The Council has developed programs within the communities to promote environmental justice education as well as internal problem solving.

However, REC is aware that more needs to be done apart from community-specific planning. REC has been an advocate on local, state and national levels for regulation and new legislation promoting environmental justice education, ecological sustainability and environmental equality (Environmental Justice, 2012). REC develops and runs programs designed to advance their mission. The three main programs REC developed are: the Environmental Health and Justice Program; the Food Justice Program; and the Advocacy and Education Program.

2.4.1 Environmental Health and Justice

The Environmental Health and Justice Program was developed in order to investigate the issue of environmental justice in low-income and minority based communities in Worcester. The program is divided into different areas of concentration, each focusing on a different aspect of environmental health and awareness (REC, 2012). The four main programs include: the Green and Healthy Home Coalition; the Trash Action program; the Weatherize Worcester program; and the Worcester Diesel Pollution Solution. Each program represents and publicizes a chronic problem related to environmental health and justice in Worcester. The Green and Healthy Homes Coalition investigates and addresses environmental health threats in homes within the communities,

highlighting energy efficiency concerns, elimination of indoor and outdoor environmental health concerns (REC, Healthy Homes Coalition, 2012).

The Trash Action program strives to make the communities of Worcester safer, healthier and more attractive as a residential area. The program organizes clean up opportunities for various neighborhoods to remove trash or other harmful materials present in that community (REC, Trash Action, 2012).

The Weatherize Worcester program is a new initiative to help residents save on energy bills while also reducing inefficiencies in their housing that may cause mold or other environmental health problems. The program also reduces the carbon footprint of Worcester, which can make a difference in the quality of the general environment (REC, 2012).

Finally, the Worcester Diesel Pollution Solution is a campaign to reduce diesel emissions from public transportation vehicles, heavy-duty highway vehicles, and construction machinery. The program works with local government as well as private companies to encourage the use of cleaner emission vehicles or the installation of lower emission retrofits. Diesel pollution has been a major contributor to environmental degradation (MassDEP, 2012). The pollution has been linked to greenhouse gases, which affect climate and weather patterns and thus both food production and ecosystems (REC, Diesel Pollution Solution, 2012). These three programs tie in with environmental issues plaguing the city of Worcester. The Regional Environmental Council has made important progress in raising awareness of the inequality in environmental health and justice in the communities or Worcester and their work will continue to push the city to finding a solution to the collection of environmental problems.

2.4.2 Residential Focus of Environmental Health

In October of 2011, the Regional Environmental Council was awarded a \$100,000 grant from the Environmental Protection Agency (EPA, 2011). The grant was designed to support the Green and Healthy Homes Coalition as it built upon work already initiated by the Worcester Lead Action Collaborative (WLAC). WLAC addresses environmental health threats in homes (REC, WLAC, 2011). The grant allowed REC to investigate the conditions in the communities with the lowest income. REC determined these neighborhoods to be: Main South, Oak Hill, Belmont Hill, Quinsigamond

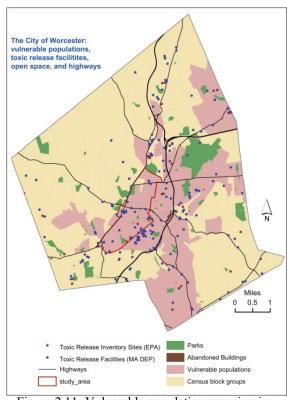


Figure 2.11: Vulnerable population mapping in Worcester (SciVerse, Science Direct, 2009).

Village, and Piedmont. These areas were determined to be the areas in Worcester with the

lowest average income (SciVerse: ScienceDirect, 2009). The map in Figure 2.11 gives a clearer perspective of the Worcester community as a whole. A large portion of this area contains a population vulnerable to environmental injustice and health problems. In addition to that information, the map also shows several toxic release facilities reported by both the Massachusetts Department of Environmental Protection (MA DEP) and the EPA. The surface area of vulnerable population compared to the surface area of parks in Worcester is extremely disproportionate. This could be a reason for the resulting environmental injustice. The Regional Environmental Council's main objectives in utilizing the grant money are to eliminate the environmental health hazards in the homes, promote awareness of environmental justice and conservation of energy, promote policies

and legislation that coincide with their mission, and to empower people of the affected neighborhoods to correct and better their living quality (Regional Environmental Council, 2012).

2.5 The CARE Grant

The Regional Environmental Council (REC) is currently funded by an EPA grant called a CARE grant. 'CARE' is an acronym for Community Action for a Renewed Environment. The goals of this grant are to help communities reduce exposure to toxic pollutants, help communities understand all potential sources of exposure to toxic pollutants, work with communities to set priorities for reduction of hazards in their neighborhoods, and to create self-sufficient, community based partnerships that will continue to rectify environmental hazards even after the grant has ended (EPA, 2011). The CARE grant comes in two levels, Level I, and Level II. A Level I grant averages about \$90,000 and Level II grants average about \$275,000 (EPA, 2011). The Regional Environmental Council is currently a recipient of a Level I grant which comes with the stipulation that the organization receiving the grant: "work with the funded entity to form community-based collaborative partnerships; identify and develop an understanding of the many local sources of risk from toxic pollutants and environmental concerns; and set priorities for the reduction of the identified risks and concerns of the community" (EPA, 2012). Hence, the Regional Environmental Council must follow these guidelines if it wishes to continue receiving grant money.

The CARE grant recommends use of a ten step process through which communities experiencing environmental injustice will be assisted. This ten step proves is outlined in Figure 2.12.

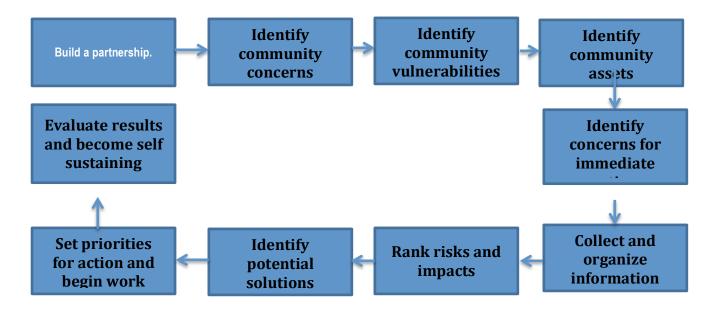


Figure 2.12: CARE recommended 10 step processes (EPA, 2011)

This ten step process shown in Figure 2.12 currently guides REC's efforts. The EPA has identified potential partnerships for them, these potential partnerships include:

- Nu-look Refinishing;
- Worcester Property Owners Association;
- Worcester Roots Project;
- Southeast Asian Coalition of Central Massachusetts;
- Worcester Community Action Council, Inc.;
- NeighborWorks Home Ownership Center;
- Lutheran Social Services of New England;
- Fairbridge Project International;
- Clark University;
- Legal Assistance Corp.;
- Christian Community Church;
- Catholic Charities;
- City of Worcester Office of Human Rights,
- City of Worcester Division of Neighborhoods and Housing;

- City of Worcester Inspectional Services (Division of Housing and Health Inspections);
- City of Worcester Dept. of Public Health;
- Massachusetts Dept. of Public Health, Childhood Lead Poisoning Prevention Program

The EPA has identified these potential partners as viable candidates to promote a self-sustaining environmental justice program (EPA, 2011).

The CARE grant has been in place since 2005, and in that time it has helped a vast multitude of communities analyze, assess, and reduce environmental hazards, especially in communities experiencing an unusually large number of hazardous sites. Figure 2.13 is a map of all the towns, communities and cities that have received CARE grants (EPA, 2011).



Figure 2.13: Locations of CARE grants given between 2005 and 2011 (EPA, 2011)

The CARE grant's aims and motifs coincide well with the REC's plans for research, and integrate similarly with the REC's expectations for this project. The REC hopes that by successfully implementing a Level I grant, they will be given the

opportunity to apply for a Level II grant, which would bring increased funding and resources.

2.6 Background Conclusion

It is evident that some Worcester communities are facing unjust environmental and social conditions. Main South, Piedmont, Quinsigamond Village, Oak Hill, and Belmont Hill are the five lowest income communities of Worcester and are fronting extremely poor living qualities. The Environmental Protection Agency provided REC with the CARE grant in order to get the community perspective and prioritize the changes that should be made in these communities. With this grant, REC has the potential to make extraordinary changes in these communities. The objectives needed to fulfill the CARE grant were given to the team. The team collected community perspective, prioritized results, and proposed changes to be made for healthier communities.

3.0 Methodology

3.1 Collecting and Assessing Information

The main objectives for the project were developed into five steps. The objectives for the project were:

- 1. Prove the environmental and social injustice exists within the five communities
- 2. Investigate the differences in risk between high and low-income areas
- 3. Collect community perspective
- 4. Prioritize risk and discover what concerns are cause for immediate action
- 5. Recommend future solutions

The objectives directed the project for providing information for positive change in the city of Worcester. A Worcester Polytechnic Institute (WPI) Interactive Qualifying Project (IQP) group, previously employed by REC, developed geographical limits for each neighborhood and proved environmental injustice within them. The maps in Appendix E, display the environmental hazards in the low-income communities.

The maps identified the environmental risks present in each of the neighborhoods. The previous group worked primarily on environmental justice, but the current team investigated the socioeconomic concerns in Worcester. The current team mapped crime rates, homelessness, drug abuse and abandoned buildings located in Worcester. To highlight the disparity, levels of social injustice in four higher income communities we also mapped. The concept of social injustice is shown by a discrepancy in the quality of living in different areas (Mechanic and Tanner, 2007). The communities researched were Forest Grove, Broadmeadow and West Tatnuck. The maps included criminal activity and location of abandoned buildings in the area. Figure 3.1 shows the greatest difference

between the low-income and high-income neighborhoods. The maps were made using Worcester Crime Reports, which displayed theft, theft from a vehicle, breaking and entering, assault, multiple crimes committed, robbery, and sex offenders in Worcester. The team overlapped these onto the maps of the low-income communities displaying environmental hazards.



Figure 3.1: Comparison of High and Low-income Neighborhoods: Forest Grove and Main South

Understanding, proving and connecting environmental and social justice to income was the current teams biggest objective. To prove social justice existed in Worcester, the team utilized focus group discussions and statistical data from each of the categories previously listed. The maps made from this data proved injustice and gave REC the information necessary to apply for a Level II CARE grant.

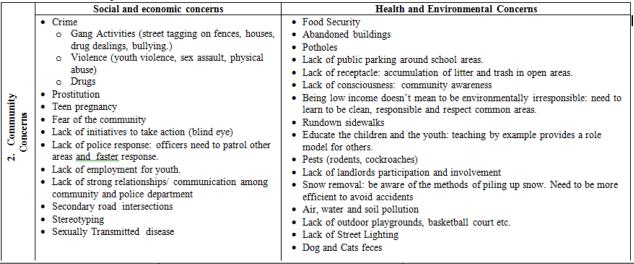
3.2 Community Discussions

Aside from mapping social injustice, the REC team conducted focus groups throughout the investigation as a means of data collection. Focus groups are typically restricted to less than 15 participants and REC requested that the discussions be no more than 10 people at a time. The objectives for the focus group guide a meaningful discussion on socioeconomic and environmental concerns in Worcester. The REC team conducted the focus group with two facilitators, who prompted questions, and two scribes

to record responses. Focus group discussions are especially important to REC because of their significance to the CARE grant. The CARE grant requires community discussions as a part of their grant program. In addition to this, the CARE grant and the Environmental Protection Agency (EPA) prohibit the use of questionnaires; therefore, information must be gathered from group discussions. Without focus groups, the community perspective and priority concerns from citizens would be difficult to obtain.

The focus group began with an overview of the project, objectives for discussion, and a short background of REC and its mission. The main topics presented were socioeconomic issues, environmental health, community vulnerabilities, community assets and issues that would be cause for immediate action. These topics were presented in forms of questions and the group was led into a discussion about the problems they see in their respective communities. The answers were recorded and later transcribed into the template in Figure 3.2.

1. Build a Partnership



3. Community Vulnerabilities	4. Identify Community Assets	5. Identify Concerns for Immediate Actions
Unemployment	Community Gardens	Abandoned buildings: foreclosure
 Lack of health care resources 	Faith based organizations	Exposure to toxics at home and at the workplace
Absence of participation from state	Library	Implement community service to target other
entities	Peer to peer education	areas.
Drug dealers of the streets, public	Head start: brings service to families	Inform minority groups (working poor, refugees)
parks	52 neighborhood watch	about supporting organizations
More dialog among community	Organizations oriented to educate people that	Find a solution to deal with language barrier
members	come into the country: build trust	problems
 Lack of affordable housing: close 	Inform people about health care opportunities	Trash and litter: create partnerships with
attention to minimum wages	(free clinics, UMass, Work Force Development	Worcester public schools to have more

Figure 3.2: Example Template used by the REC (REC, 2012)

The Regional Environmental Council has conducted community discussions for multiple age groups in order to gain a well-rounded community perspective.

Independently, REC conducted group discussions with youth and adults in all five low-

income neighborhoods. To gain interest in participating in focus group discussion, REC outreached to local organizations, but they also completed door-to-door visits to determine the best time and place for the neighborhood. After youth and adult focus groups were completed, the next step was gaining the senior perspective. The team completed two focus groups with the senior residents of Worcester. The successful focus groups were conducted at the Worcester Senior Center. Utilizing three types of focus

group data, stratified by age, allowed for more input in each individual discussion. The data was easily compared to statistics later on in the project.

3.3 Highlighting Main Concerns and Prioritize Risk

Collecting the senior perspective was the final step in data collection for REC in relation to community perception. After completion of all focus groups, the team could then complete their third objective by comparing the sets of data from the youth, adult and senior focus group discussions. In order to prioritize the present risk, the team investigated other sources of information to support and narrow down the claims made in the focus groups. To prioritize the concerns presented, the team highlighted similarities between the templates from each discussion and developed a final list of concerns.

4.0 Findings

4.1 Introduction

After collecting community perspective, the team found supporting statistical data from Census and FactFinder reports e.g. "Selected Social Characteristics in the United States", "Selective Characteristics of the Native and Foreign-Born Populations", and "Households and Families". Abandoned buildings and criminal activity were mapped in the five low-income and four high-income communities. The socioeconomic injustice found was very alarming and led the team to propose a plan for change in Worcester.

4.2 Worcester Senior Center Focus Group

The CARE grant that the Regional Environmental Council is working for requires community perspective on socioeconomic and environmental issues present in the communities. Under REC's supervision, the Worcester B'2012 team successfully conducted focus group sessions with the youth and adult aged citizens. For each focus group the data collected was organized in a separate template.

One main goal for the team was to complete a focus group with a sample of senior citizens in low-income neighborhoods of Worcester. The data would add the necessary community perspective to the final report. The team contacted the Worcester Senior Center to arrange a focus group with six seniors and Benito Vega, a sponsor from the Regional Environmental Council. At this focus group, an overview of the REC mission and the five topic areas to be discussed were given to the participants. Next, for each topic a set of questions was asked in order to collect community perspective on what issues are prevalent in Worcester neighborhoods. The questions asked are displayed in Appendix D.

The first topic was social and economic concerns. When asked about social and economic issues present within their communities, the seniors expressed that crime was a disturbing issue that seemed to be increasing. From the seniors' perspective, gang activity, theft, assault, and drug abuse were all criminal activities that they feared in their neighborhoods. In addition to criminal activity, the group expressed concern about lack of employment and homeless citizens. The seniors came to the conclusions that the amount of criminal activity and homelessness were negative consequences that resulted from a blind eye turned to the community. The senior's also communicated that there was a lack of initiative to reverse this trend.

The discussion then moved onto health and environmental concerns. The participants agreed about many problem issues. Some of the concerns were the lack of receptacles, street lighting, cleanup programs, resources for healthcare, and an overall awareness of the city conditions. The seniors also added that the large number of abandoned buildings in the area were a significant issue. Since these buildings can house criminal activity, arson, and environmental hazards, the seniors believed the buildings should be demolished or restored. A final concern they articulated was the condition of sidewalks and maintenance of the streets. They believed many sidewalks and streets were in grave disrepair and the level of effort to repair or maintain them was exceptionally poor. The poor maintenance of streets was also believed to be an alarming issue during snowy weather. The seniors were bothered by the lack of snow removal and they believed stricter programs should be in place to properly clear the streets and sidewalks.

The next three topics were community vulnerabilities, community assets and concerns for immediate action. From this portion of the discussion, the participants

recognized that there were some good qualities that their communities had to offer; however many of these assets were masked by the socioeconomic and environmental issues present. The participants discussed the issues they thought to be most pressing, and highlighted their concerns involving abandoned buildings and lack of awareness and resources.

The information from the senior participants was compared to the focus group data collected from the youth and adult citizens. Commonalities between all focus groups for the social and economic issues were then prioritized. Suggestions and a proposed action plan were made in hopes of making future improvements in the communities. The proposed solutions are later discussed in Chapter 5.

The team collected data from The United States Census Bureau and FactFinder to find statistics on Worcester and the relevant issues. The team also found other online documents to support the concerns discussed by focus group participants. The statistics supported the focus group data in addition to the mission statement of REC. The Regional Environmental Council was against suggesting or implementing changes without a strong foundation. The community perspective and the statistics were a balance of hard facts and community opinion. The statistical data helped the team narrow down results and prioritize three to five main issues present within the communities. The main concerns were prioritized for causes for immediate action within the communities. The four main risks include crime, drug abuse, homelessness and lack of initiative to take action. The team believed these four risks were the most detrimental to the city of Worcester, as further explained in Section 4.5.

4.3 Mappings

Using crime reports obtained from the Worcester Police department, the criminal activity of five low-income neighborhoods, with annual incomes ranging below 20,000 dollars, was examined. A set of discrete symbols, shown in Figure 4.1, were used to represent the criminal activity occurring in each neighborhood. Individual maps were created for each neighborhood. From the maps shown in Figures 4.2-4.6, it is evident that extremely high amounts of criminal activity occur in low-income neighborhoods. Environmental hazards, including oil leaks, landfills and other hazardous material, were mapped in each neighborhood by the Worcester B'2012 IQP group that worked with the Regional Environmental Council.

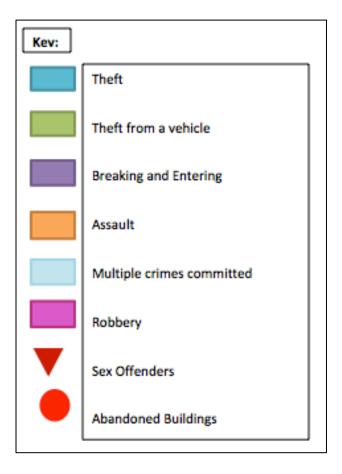


Figure 4.1 Crime Mapping Key

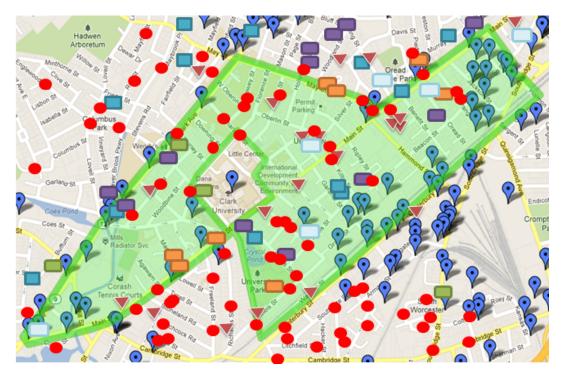


Figure 4.2: Main South Crime



Figure 4.3: Oak Hill Crime



Figure 4.4 Piedmont Crime



Figure 4.5 Quinsigamond Village Crime



Figure 4.6 Belmont Hill Crime

The numbers of abandoned buildings in each neighborhood were also located using GeoCommons. They were then included in the maps also displaying criminal activity and environmental hazards. As shown by the maps, there is a surplus of abandoned buildings present in the low-income neighborhoods alongside vast instances of crime. According to Katie Daly of Worcester NECN, there is an extreme connection between criminal activity and abandoned buildings. Instances of theft, arson, and gang related activity have been seen to occur in abandoned buildings (Daly, 2008). Worcester city councilor Barbra Haller speaks about the issue, saying "It bring[s] blight to the neighborhood, public safety concerns to the neighborhood and it reduces the sense of value to the neighborhood" (Daly, 2008). Abandoned buildings have been identified as a major problem in the city of Worcester. The maps of each neighborhood help identify the major existence of socioeconomic issues in the communities.

Mapping the socioeconomic concerns in each neighborhood revealed a substantial problem in Worcester. However, comparing these statistics to those of higher income communities would prove the existence of socioeconomic and environmental injustice. Therefore, four higher income neighborhoods in Worcester with annual incomes ranging between 60,000-100,000 dollars were studied. Figure 4.7-4.10 displays the amount of criminal activity and building abandonment in the neighborhoods of Broadmeadow, Forest Grove, West Tatnuck, and Newton Square. There are very few abandoned buildings in these neighborhoods in addition to little to no criminal activity. This reinforces the parallel relationship between crime and building abandonment as well as illustrates the socioeconomic differences between high-income and low-income communities.

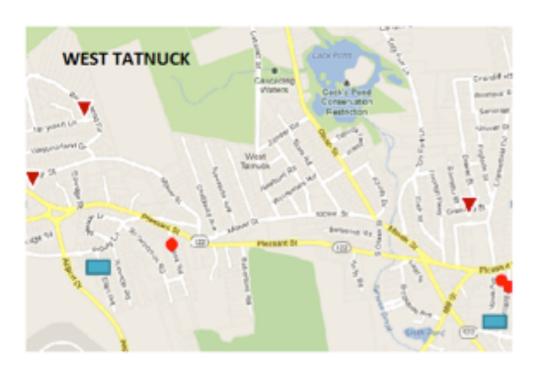


Figure 4.7 West Tatnuck Crime

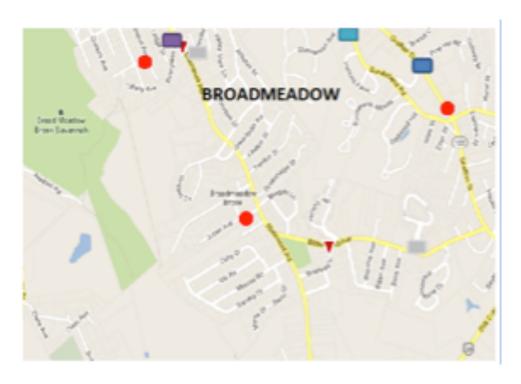


Figure 4.8 Broadmeadow Crime

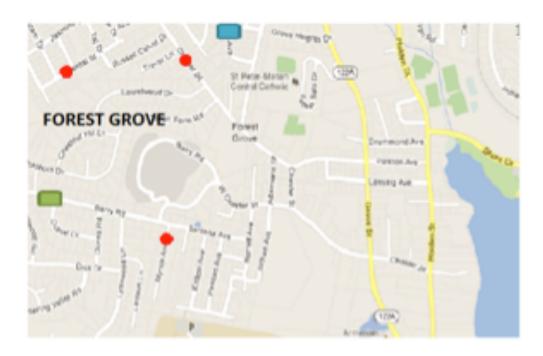


Figure 4.9 Forest Grove Crime

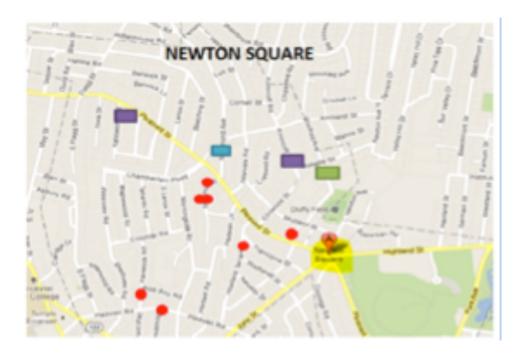


Figure 4.10 Newton Square Crime

The mapping proved the irrefutable disparity between the two levels of income. One of the main objectives to the project was to prove socioeconomic and environmental injustice existed in Worcester. The maps aided the REC team in completing this goal. Mapping criminal activity and abandonment in high and low-income neighborhoods made it easy to conclude that there is an extreme difference between the two areas and that significant efforts should be taken to change these injustices. (Daly, 2008)

4.4 Prioritized Risks

The community perspective on socioeconomic issues for low-income communities in Worcester was collected using focus groups for youth, adult and senior aged citizens. From the different concerns of the varying age groups, there are some commonalities involving the most pressing neighborhood concerns. The four topics and issues, which were expressed in all focus groups, include the following:

- 1) **Crime;** including Gang Activities, sexual assault, drugs, break-ins, robberies, and drug usage and distribution
- 2) Drug Abuse
- 3) Homelessness
- 4) Lack of initiatives to take action

From these four disconcerting socioeconomic issues discussed by the community members, statistical data was found to support their claims.

4.5 Supporting Statistical Data

In order to fulfill the CARE grant requirements, community suggestions for improvement must be supported by statistical data. To complete this requirement, the REC team has performed in depth research on the current problems plaguing Worcester. This was done to ensure the community input was factual and relevant.

4.5.1 Drug Abuse and Distribution

The first issue researched was drug usage and distribution. 'In 2007-2008, Massachusetts was one of the top ten states for rates in several drug-use categories: pastmonth illicit drug use among young adults age 18-25; past-month marijuana use among young adults age 18-25; illicit drug dependence among persons age 12 or older; and illicit drug dependence among young adults age 18-25' (CDC, 2008). Massachusetts also exceeds the national average for drug-induced deaths. Specifically looking at Worcester, multiple statistics confirm our theory that drug use is a prevalent issue in the city. '19% of the Worcester population suffers from the problem of alcoholism. About 20% of the city youth (under 18) consume two or more glasses of alcohol every day. Also, 80% of the crimes happening in the city were drug related crimes, and 30% of the road accidents took place because of drunken driving' (CDC, 2008). The statistic that the REC team found most relevant was that 80% of crime in Worcester is drug related. This statistic

supports the concept that illegal drug presence in Worcester, which is often more prevalent in low-income neighborhoods, directly impacts the amount of crime and thus socioeconomic injustice.

In addition to the presence of drug related crime in the city, Worcester faces problem with drug addiction treatment. Shown in Figure 4.11, is a map of communities that received Federal funding to develop drug use and abuse reduction programs, as well as drug specific courts. These two divisions are essential to reducing drug related crime and usage in an area. The drug specific courts provide a specialized approach to treating drug use and distribution crimes and the federally funded programs develop centers at which drug users can find help and counseling as well as recover from their addiction(CDC, 2008). As can be seen in Figure 4.11, Worcester and surrounding areas, displayed inside the blue circle, do not contain drug specific courts nor drug specific Federal grant programs. The lack of focus on Worcester, even though it is the second largest city in Massachusetts, shows a lack of understanding on drug use and abuse problems currently affecting the city, as well as a lack of initiative to change the present situation. Drugs have been a long-term problem in the city, and they will continue to be unless action is taken.

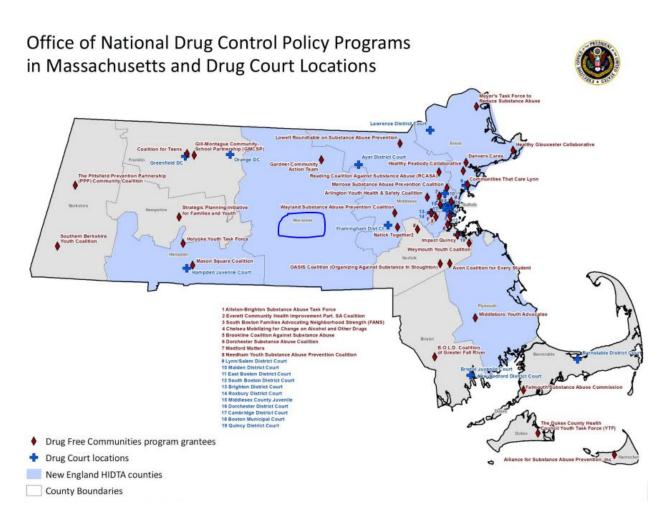


Figure 4.11: Areas of Federal Funding for Drug Reduction Programs(CDC, 2008)

4.5.2 Criminal Activity

Criminal activity is a broad term. However, as it relates to socioeconomic injustice, the term crime will encompass both violent and property crimes, as well as issues like sexual assault and arson (Mechanic and Tanner, 2007). Proven with previous maps presented in this report, there is a disparity between the amounts of crime present in the low-income and high-income neighborhoods. This injustice contributes to the high crime rate in Worcester as a whole. The graph in Figure 4.12 quantifies the crime rates for the city itself, the surrounding county, and for the state as a whole. Both violent (assault, murder

etc.) and property (break in, robbery, arson) crimes are at a high rate in Worcester, with the city having a higher rate than both the surrounding county and the state as a whole.

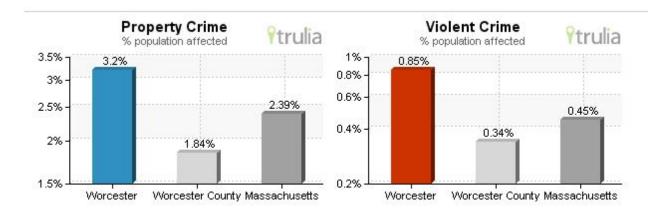


Figure 4.12: Worcester crime rates (Trulia, 2013)

On a larger scale, Worcester ranks fifth out of all New England cities for violent crime rates, higher than Providence, RI and Boston, MA (Sutner, 2012).

Recently, the economic recession has been blamed for the intense crime rates in Worcester (Worcester Regional Research Bureau, 2012). This accusation is masking the core of the actual issue: the presence environmental and social injustice. Shown in Figure 4.13 are all crime reports in Worcester from 2007 – 2011, and the rates before and after the economic recessions began are analyzed.

Recession								
		2007	2008	2009	2010	2011	2007 vs. 2011	
Murder -	Incidents	6	6	7	7	9	3	
murder -	Arrests	7	12	11	10	23	16	
Shootings -	Incidents	22	11	18	29	20	-2	
anootings -	Arrests	n/a	n/a	n/a	n/a	n/a	n/a	
Aggravated	Incidents	868	1,013	1,047	1,080	1,069	201	
assault	Arrests	969	978	973	996	1,014	45	
Oakhan:	Incidents	374	378	414	368	416	42	
Robbery -	Arrests	112	79	115	83	109	-3	
Breaking	Incidents	1,367	1,762	1,542	1,979	2,135	768	
and Entering	Arrests	191	208	160	203	217	26	
A1	Incidents	564	541	514	528	480	-84	
Shoplifting -	Arrests	351	326	260	302	258	-93	
Larceny	Incidents	1,745	2,011	2,638	1,712	1,689	-56	
from Motor Vehicle	Arrests	58	59	71	57	49	-9	
Prostitution and related	Incidents	106	93	71	80	85	-21	
	Arrests	212	219	141	133	156	-56	
Drug	Incidents	951	892	540	650	537	-414	
Violations	Arrests	1,238	1,203	689	844	705	-633	

Figure 4.13: Crime Reports in Worcester (Worcester Regional Research Bureau, 2012)

From this information, it is clear that crime rates have no connection to recent economic events such as the recession. Some rates have decreased, but the opposite is also true; proving the economic recession made little impact on the city crime rates.

5.0 Recommendations and Conclusion

5.1 Suggested Improvements

Crime rates in lower-income communities versus higher income communities are strikingly higher. In Figure 3.1, environmental and socioeconomic disparities between a high-income and low-income Worcester neighborhood are highlighted. The lower income communities shown in Figure 4.2-4.6 have more abandoned buildings and higher crime rates than higher income communities. Moreover, the higher income communities shown in Figures 4.7-4.10 contain fewer socioeconomic hazards. Abandoned buildings are portals for crime and provide a place to station gangs (Botts, 2010). The New England Cable News reported that out of 2,000 foreclosed properties, 400 are vacant buildings. One of these abandoned buildings caught on fire, taking the life of several Worcester Firemen (NECN, 2008). Closing abandoned buildings could decrease criminal activity but the root of the problem stems from the criminal mindset. Creating programs targeted towards recently released criminals could inspire them to make positive changes in their lives.

Another issue that youth, adult and senior residents expressed was prostitution rates in lower income communities. Prostitution, for some, is a means of income to possibly support homes, families, and drug addictions (Pomeroy, 2010). After numerous arrests and concerning reports on prostitution, the "City's Division of Public Health will soon begin conducting research for long-term solutions aimed at addressing the health consequences of prostitution --- drug dependency and abuse, violence and sexually transmitted diseases" (Kotsopoulos, 2012). It is clear that prostitution poses great risk to the community and more must be done to prevent it.

The third most pressing issue discussed was homelessness in the lower-income communities. Homelessness is an ongoing problem with a staggering 102 homeless youth counted in Worcester (RootCause, 20012). The City of Worcester has developed many plans to help end homelessness including "The Three Year Plan to End Homelessness" developed in 2007 (Levy, 2007). Although there are plans in place to help end homelessness, this is a pressing issue that still needs attention. Homeless shelters exist in Worcester that feed, shower, and house citizens for a period of time. However, there are no programs that provide the homeless with basic skills and techniques necessary for employment opportunities. A great asset to the community would be the development of an outreach program for homeless citizens, preparing and inspiring them to make changes for themselves and the community. Turning an abandoned building into a center that runs similarly to a school would educate the homeless and assist them in acquiring the basic skills necessary for an entry level job. Some skills could be: typing, communication, networking, etiquette, and money management. Turning an abandoned building into this type of program may be a costly endeavor. Another less expensive recommendation is to investigate the city's three-year plan and see what could be improved, built upon, and implemented.

The senior focus group participants felt there is a lack of initiative within the community. Crime, prostitution, and homelessness, among many other issues, are present in the lower income communities of Worcester, including Belmont Hill, Main South, Piedmont, Quinsigamond Village, and Oak Hill. A highly suggested recommendation is for the Regional Environmental Council, if awarded the Level II CARE grant, to transform an abandoned building in Worcester. These buildings shelter much crime,

prostitution and homelessness in Worcester into an education center. The team believes that much of the present issues in Worcester would decrease without the presence of abandoned and vacant buildings.

Compiling all of the information and suggestions made above, it would be beneficial for the Regional Environmental Council to use the CARE grant to repurpose an abandoned or vacant building. Currently crime, prostitution, and homelessness, which are socioeconomic issues highlighted by community members, are all issues that are partially enabled by abandoned buildings (Botts, 2010). By purchasing a building in a lower-income community of Worcester and repurposing it the opportunity for criminal misconduct will be less likely to occur.

5.2 Final Goal

The final goal the REC team had for the project was to suggest possible solutions for REC to implement or make recommendations for additional IQP teams to work on. The team prioritized the present risks into four main concerns. The final step was to make recommendations for methods that would follow up on the issues and make attempts at alleviating the current situation. The team hoped that if REC qualified for the Level II CARE grant, that some of the funds would be allocated to this effort. The extensive research led to the conclusion that abandoned buildings are a main cause for concern in Worcester because of their association with criminal activity, homelessness and drug use. The main suggestion of the team was to start a revitalization project in the abandoned buildings located in Worcester and use them as beneficial resources for the community and its residents.

The end goal for this IQP was to provide REC with enough credible information to successfully complete the Level I program for the CARE grant and recommend helpful and plausible solutions for the future. The REC team hopes, with their research, that REC can successfully apply and receive the Level II grant and, with the additional money and resources associated with it, implement changes within the Worcester communities.

5.3 Sustainable Actions

In efforts to diminish criminal activity, drug use, and homelessness in Worcester neighborhoods, an effort must be mad to restore and renovate vacant and abandoned buildings. As explained in sections 2.23 and 4.3, abandoned and vacant buildings create private surroundings, which can encourage illegal misconduct. The team has suggested a restoration plan for turning an old vacant building into a community program center. The center will provide individuals of all ages with prime communicative and technical skills as well as food and clean water. The main objectives and aspirations for this proposed center are to encourage employment opportunities and lessen issues of street misconduct. By transforming an abandoned building into a productive and safe environment, the team hopes to make an impact in the Worcester community.

A vacant building located at 40 Pullman Street has been proposed as the one location to be transformed into the community program center; the Skill Enrichment Center of Worcester. The vacant building was previously identified as a warehouse that created Pullman railroad cars. However, now the building stands vacant and unutilized. The three story building is 85,000 square feet and is selling for approximately \$835,000.

5.3.1 Proposed Restoration of the Pullman Street Building

Two drive-in grade level doors are located on the first floor of the warehouse and will be transformed into a front entrance leading to a check-in desk. Here, each individual will ideally receive a schedule of the events being held each week. From week to week, the schedule will be subject to change. Beyond the front desk will be the lobby with an elevator. Beyond that is a set of double doors, leading to a gymnasium that could be used for recreation, team building exercises, and group meetings and events.

The second floor will be focused solely on education. It has the possibility to be revamped into multiple classrooms separated by a long hallway. These classrooms will be the heart of the mission of the organization and will teach individuals particular skills that will benefit them in the future. For instance, classes on public speaking, communication, typing, reading, writing, and resume building will be offered. It is also suggested that specialists come for educational sessions on specific trades. The purpose of these sessions will be to provide individuals with the necessary skills and tools required to competitively compete in the job force as well as provide individuals with a sense of accomplishment and self-worth.

The third floor will focus on improving the health and wellness of individuals. It will be divided into a cafeteria and men and women's locker rooms. On a weekly basis, the cafeteria will be providing meals to those in need; these meal times will be able to be observed on the weekly schedules. The locker rooms will have showers and bathrooms for individuals who do not have access to clean water or healthy living situations. Electricity and power is already installed in this building through National Grid, therefore this cost in renovation may be neglected.

If this suggested refurbishment of 40 Pullman Street into the Skill Enrichment Center of Worcester is permitted and funded by the Regional Environmental Council, the city of Worcester, and any other donating organizations, will need to complete a careful cost analysis of the renovations. If desired, the equation coined by the Forensic Magazine may be useful for analyzing the cost of all the renovations required. The equation reads T = N - S + D. In this equation, T is the total renovation cost, T is a control variable and is the construction cost for building a completely new building from scratch, T is the current value of all systems and materials, and T is the cost of demolition. To ensure that money is not lost, it is crucial that T, the total cost of renovation, is less than the control variable (T) (Mount, 2006). The building has the possibility to bring about a change in the Worcester community. The benefits that could come from the program could be life changing. More investigation, however, will be necessary in order to see if this is a plausible plan of action for REC.

Appendix A: WCPC B '12 REC Team Information

DEP Classified Sites (Used for Environmental Hazard Mapping)

COMPLIANCE STATUS

RAO (Response Action Outcome): These sites have submitted an RAO application, which shows that the response action(s) taken were enough to eliminate all substantial hazards. Low risk sites.

DEPNDS / DEPNFA / LSPNFA / PENNDS / PENNFA / WCSPRM: Sites classified as having any of these compliance statuses were reported to MassDEP prior to October 1993. Their status as a disposal site is either pending, or the DEP has deemed the site no longer hazardous.

DPS / DPSTRM (Down-gradient Property Status): Sites with DPS status have submitted reports to the DEP which state that contamination is coming from an up-gradient property. DPSTRM status means that a site's DPS status has been terminated.

URAM (Utility-Related Abatement Measure): Abatement measures on a hazardous release are being or were performed. Each release has been assigned a RTN (Release Tracking Number).

REMOPS / ROSTRM (Remedy Operations): These sites have been assessed and a remedial system for a permanent solution is currently in operation. This remedy must rely on active maintenance and operation. ROSTRM status means prior Remedial Op Status has been terminated.

DEPMOU: The DEP has well-assessed the site and hold a Memorandum of Understanding (or other written agreement) with the responsible party(ies).

SPECPR: Special Project status.

Tier Classified Sites (1A, 1B, 1C, 2, 1D): A tier classified site has been assigned its own tier status based on its NRS Scale (Numerical Ranking System). A higher NRS score correlates to a larger environmental risk and thus a higher tier. Tier 1A sites are considered the highest risk sites; those that fail to provide proper submittal to the DEP default to Tier 1D status. Note that all transition sites that have accepted waivers prior to 1993 are categorically given Tier 2 status.

RTN Closed (Release Tracking Number): A release tracking number is assigned to all registered sites for classification purposes. An RTN Closed status means that the DEP has assigned the site to an already existing, 'primary' RTN. Any further response actions for this site will be done with the new RTN.

STMRET / INVSUB / UNCLASSIFIED (UC): These compliance statuses indicate that the site's RAO Submittal has been retracted, deemed invalid, or otherwise not reviewed by the DEP.

RAO CLASS

Class A RAO: Remedial work completed; classified as "no significant risk"

Class B RAO: Site assessment showed "no significant risk"; no remedial work required.

Class C RAO: Temporary cleanup status; site is not considered "substantial hazard" status. Site must be evaluated every FIVE years to until it is suitable for either a Class A RAO or Class B RAO status.

RELEASE/SITE CLEANUP PHASE

Phase I - Initial Investigation: samples are taken; contaminants are determined/analyzed; Tier classification

Phase II - Comprehensive Assessment: risks are determined, including health, welfare, environmental risks

Phase III - Remedial Action Plan: cleanup options are assessed; Remedial Action Alternatives considered; best cleaup plan is chosen

Phase IV - Implementation: the action plan chosen in III is implemented

Phase V - Operation, Maintenance, Monitoring: site cleanup process; long-term treatment is continuously monitored

Release Address	Site Name/ Location Aid	Comp- liance Status	Comp- liance Status Date	Phase	RAO Class	Chemical Type
						Oil &
2 KANSAS ST	BABCO REALTY	TIER 1B	7/11/97	IV		Haz. Mat.
	CHARLES MANOOG					
401 SOUTHBRIDGE ST	YARD 9	WCSPRM	6/20/94			Oil
	COMMONWEALTH					Oil & Haz.
QUINSIGAMOND AVE	GAS	URAM	8/8/11	Ш		Mat.
717 PLANTATION ST	CUSTOM COATING & LAMINATION	LSPNFA	7/14/95			
241 SOUTHBRIDGE ST	EASTERN CHEM SPECIALTIES	RAO	7/7/97		A2	
						Oil & Haz.
MASSASOIT RD	EXXON STATION FMR	RAO	5/1/08	٧	A2	Mat.
70 JAMES ST	GF WRIGHT STEEL & WIRE	RAO	1/31/06	П	A2	
1264 GRAFTON ST	GRAFTON STREET MOBIL	LSPNFA	8/3/95			Oil
35 NEW ST	INDEPENDENT PLATING CO INC	RAO	7/31/95		А3	Oil
52-54 HERMAN ST	WORCESTER LION DISTRIBT	DEPNDS	4/2/96			

442 SOUTHWEST						
CUTOFF	MORSE MACK TRUCK	RAO	5/26/06		A2	Oil
	NATIONAL					Haz.
70 JAMES ST	STANDARD CO	RAO	1/28/11		C2	Mat.
						Haz.
1 NEW BOND ST	NORTON CO	RAO	7/16/96			Mat.
68 SOUTH LUDLOW ST	OWENS ILLINOIS FPD	DEPNFA	9/2/93			
1074 MILLBURY ST	P&W RR PARCEL A 2+4	RTN CLOSED	1/11/01			Oil & Haz. Mat.
	MARMON PLACE					
MARMON PL	PROPERTY	RAO	8/9/95		A3	
290 BELMONT ST	U HAUL	RAO	6/20/01		A2	Oil
						Oil &
	LIBERTY PROPERTY					Haz.
80 BALLARD ST	FMR US STEEL	RAO	10/14/05	٧	C1	Mat.
	UNIVERSAL					
345 SHREWSBURY ST	METALS CORP	LSPNFA	8/11/97			
145 BROOKS ST	WARNER AND SWASEY	DEPNFA	9/2/93			
						Haz.
459 SOUTHBRIDGE ST	WARREN OIL CO	RAO	1/29/98			Mat.
150 WORCESTER CENTER BLVD	WHITE & BAGLEY	PENNFA	7/2/97			
	WORCESTER	T				
501 SOUTHBRIDGE ST	AUTO HEATING	DEPNFA	4/2/96			
150 PRESCOTT ST	WORCESTER TELEGRAM & GAZETTE	RAO	6/1/01	IV	C2	Oil & Haz. Mat.
	GREENDALE MALL					
9 NEPONSET ST	RILEY STOKER	RAO	8/8/97	III	A2	
280 GREENWOOD ST	LEWCOTT CHEM SANDMAN CO	RAO	7/31/95			Oil
130 PRESCOTT ST	WORCESTER T & G	DEPNFA	12/7/88			0
67 WEST BOYLSTON ST	SHELL STATION FMR	RAO	10/30/97		B1	
U/ WEST BOTESTON ST	KETTLE BROOK	IGO	10/30/37			
STAFFORD ST	ESTATES	WCSPRM	2/24/93			Oil
JIAN OND JI	416 BELMONT ST	TVCSF INIVI	2/24/55			OII
416 BELMONT ST	PROPERTY	DPS	3/3/95			Oil
281 PARK AVE	AMOCO STATION FMR	REMOPS	2/19/08	٧		Oil
233 SOUTHBRIDGE ST	CK SMITH TANK FARM	RAO	11/7/01	IV	B2	
250 SOUTHWEST	KENMORE	10.0	22,7,01			
CUTOFF	TRANSPORTATION	DEPNDS	9/3/93			

328 SHREWSBURY ST	EG&G INC	RAO	8/9/95	П	A2	
229 PARK AVE	SHELL OIL CO	RAO	10/4/96		A2	
	SHELL SERVICE					
551 LINCOLN ST	STATION FMR	RAO	2/16/01		A3	Oil
	UNIVERSAL					
471 SOUTHBRIDGE ST	METAL CORP	PENNFA	7/15/95			Oil
	JOHNSON					Haz.
53 WISER AVE	STEEL & WIRE	RAO	3/4/02	IV	C1	Mat.
	R & A MACHINE					Haz.
130 HIGGINS ST	COMPANY	DPS	12/21/95			Mat.
398 BELMONT ST	DRAKE PETROLEUM CO	RAO	6/22/95		A2	Oil
DE ELECTRIC CT	35 ELECTRIC COURT	LEDNICA	4/7/07			
35 ELECTRIC CT	PROPERTY	LSPNFA	4/7/97			
133 WEST BOYLSTON ST	TEXACO STATION	RAO	8/8/02		C2	
	TEXACO STATION	RAU	0/0/02		CZ	
290 WEST BOYLSTON ST	ALAN CORP	WCSPRM	10/15/93			Oil
AIRPORT DR	AVIALL	PENNFA	8/8/95			Oil
AINFORT DR		PEININFA	0/0/33			
22 ESKOW RD	22 ESKOW RD PROPERTY	RAO	7/29/96			Oil
ZZ LSKOW KD	WORC.TELEGRAM	IVAC	1/25/50			Oil
130 PRESCOTT ST	& GAZETTE II	RAO	4/10/00	ш	A2	
MAIN ST	WEBSTER SQ PLAZA	RAO	12/29/97	111	A3	Oil
1078 MAIN STREET	MOBIL STATION	1010	12/25/57		7.5	0.11
10 MILL ST	01 FND	RAO	9/9/02	v	A2	
2011112201	GIBBS SERVICE	10.0	3,3,52			
321 PARK AVE	STATION	RAO	7/16/96			
		1	.,,			Oil &
	GODDARD VALVE					Haz.
705 PLANTATION ST	CORP	RAO	9/14/98	IV	C1	Mat.
41 SUTTON LN LOTS	AA BRUNELL					
4-1 4-2 5 AND 6	ELECTRO INC	TIER 2	8/1/96	Ш		
70 QUINSIGAMOND						
AVE	CASTLE METALS	RAO	12/30/09	IV	A3	
287 GROVE ST	WORC TRANSIT AUTH.	RAO	2/20/08	٧	C1	
100 PRESCOTT ST	RAVINE BEECH CO INC	LSPNFA	8/7/95			
	SAINSBURY &					
79 MAY ST	OCONNELL	RAO	4/30/96	Ш	B1	
1 ENDICOTT ST	GRANITE REALTY TRUST	DPS	3/26/08	Ш		
366-382						
SHREWSBURY ST	GALLO REALTY CORP	RAO	12/20/05	II	A2	

	BREAULTS					
1270 GRAFTON ST	AUTO SERVICE	RAO	8/1/95			Oil
15 CHESTNUT ST	NE TELEPHONE CO	RAO	7/20/95		A2	-
30 BALLARD ST	PATRIOT METALS	RAO	9/2/08	IV	C1	
	NEW YORK		-,-,	- 1		
10 MANN ST	TWIST DRILL	REMOPS	4/28/09	v	1	Oil
	INSTITUTIONAL		, _ , _			
46A-48 MASON ST	LINENS INC	RAO	5/20/10		C2	
						Oil &
1066-1074						Haz.
MILLBURY ST	P&W RR PARCEL B	RAO	6/3/02	IV	C2	Mat.
125 BROOKS ST	VACANT LOT	RAO	11/20/97		A2	
SOUTHBRIDGE ST	REALTY TRUST FMR	RAO	4/8/96		B1	
386-390						
SHREWSBURY ST	GALLO CAR RENTAL	DEPNFA	4/2/96			
393-395						
SHREWSBURY ST	GALLO REALTY CORP	DEPNDS	4/2/96			
276 PARK AVE	GALLO REALTY CORP	RAO	10/24/94			
70 GOLDSTAR BLVD	GALLO REALTY CORP	WCSPRM	5/13/94			
	FMR AMERICAN					
15 HOPE AVE	PRESSED METALS	RAO	12/1/10	٧	A3	Oil
490 WEST BOYLSTON	APPLIANCE					
ST	SERVICE & REPAIR	RAO	1/25/06		A2	Oil
135 GOLDSTAR BLVD	WORC WRIGHT LINE	PENNFA	7/25/95			
50 MILL ST	STOP & SHOP STORE 55	RAO	12/17/96	Ш	A3	
545 LINCOLN ST	LINCOLN PLAZA 37	RAO	3/1/96	Ш	A2	
40 WOLCOTT ST	POLAR CORPORATION	DPS	7/10/96			
267 SHREWSBURY ST	VENETIAN BLIND CO	WCSPRM	7/19/94			Oil
	GREENWOOD					
9 HALMSTAD ST	AUTOMOTIVE CENTER	RAO	6/22/98	Ш	A1	
	CRESCENT ST					
CRESCENT ST	PROPERTY	DEPNDS	9/2/93			
	HARDING ST					
38 40 POND ST	REALTY CORP	TIER 2	9/12/97	Ш		Oil
						Oil &
						Haz.
640 LINCOLN ST	JAMESBURY CORP	DPS	7/5/01	IV		Mat.
851 MILLBURY ST	MORGAN LINEN	LSPNFA	6/19/96			
145 0000005 57	WARNER & SWASEY	246	0/5/05			011
145 BROOKS ST	GRINDING	RAO	9/6/95		A2	Oil
1001 SOUTHBRIDGE ST	GORDON REALTY FMR	LSPNFA	6/25/98			Oil
994 GRAFTON ST	FOREIGN AUTO	RAO	8/9/96		A2	Oil

455 SOUTHBRIDGE ST	CALLAHAN INC	DEPNDS	4/19/94			
1255 MILLBURY ST	CENTRAL OIL COMPANY	RAO	8/8/02	Ш	A3	
24 ROCKDALE ST	SERVICE STATION	RAO	12/18/95			Oil
199 CHANDLER ST	WHITE CLEANERS	RAO	7/17/01	III	A2	Oil
	STAFFORD					
135 STAFFORD ST	IRON WORKS	RAO	8/9/96		B2	
456 GROVE ST	TOWNSEND INC	DEPNFA	4/26/96			
38 HERMON ST	PAP REALTY TRUST	RAO	5/10/99		A2	
	FMR TEXACO					
294 BELMONT ST	FMR HI LO GAS STATION	TIER 1C	11/10/06	٧		
GREAT BROOK VLY	WORC HOUSING AUTH.	RAO	4/28/99	II	A4	
315 SOUTHWEST	NORTHLAND					
CUTOFF	TRUCKING	RAO	8/6/96		A2	
5 JACQUES ST	ENGINE REALTY TRUST	LSPNFA	10/5/95			
	PROVIDENCE					
460 SOUTHBRIDGE ST	WORCESTER RR	RAO	8/8/97		B2	
2 LAFAYETTE ST	WORC HOUSING AUTH.	DEPNFA	3/28/96			
40 MILLBROOK ST	EAGLE ELECTROPLATING	RAO	7/7/97		A1	
	WORCESTER	Π				
975 MILLBURY ST	COMMUNICATIONS	DEPNFA	5/6/96			
360 PARK AVE	DCJ COMPANY	RAO	10/25/07		A2	
75 EAST	WORC T & G					
WORCESTER ST	FLEET GARAGE	RAO	1/9/96		A2	
	TATNUCK SQUARE					
635 CHANDLER ST	MOBIL 01 079	WCSPRM	7/3/95			
722 PLANTATION ST	GARRAPY PLATING	RAO	8/23/06			
115 NORTHEAST						
CUTOFF	SPRAGUE ELECTRIC CO	RAO	2/22/96			
95 HIGGINS ST	GREATER MEDIA CABLE	DEPNFA	3/28/96			Oil
361-379 SOUTHWEST	KEL EQUIPMENT LEASING					
CUTOFF	INC	RAO	10/26/98	III	A3	Haz.Mat.
	MARANE OIL					
75 CRESCENT ST	TERMINAL	DPS	8/9/96			Oil
RANDOLPH RD	PROPERTY	RAO	11/29/04		A2	
398-400 GROVE ST	ATRIUM RESTAURANT	RAO	4/14/10	V	C2	Oil
	HESS STATION 21528					
312 BELMONT ST	FMR MERIT OIL	RAO	8/24/00	V	A2	Oil
466 LINCOLN ST	SHELL SERVICE STA	RAO	8/2/96			
190 MADISON ST	MERIT OIL CORP	RAO	3/11/98	IV	B1	Oil
	COCA COLA					
333 SHREWSBURY ST	BOTTLING CO	RAO	12/24/96		A2	Oil

	MOBIL STATION					
334 GRAFTON ST	01 EMB	REMOPS	4/4/05	V	Т	
370 BELMONT ST	SUNOCO STATION	RAO	11/1/99		A2	Oil
220 BROOKS ST	220 BROOKS ST PROPERTY	WCSPRM	10/22/90			Oil
						Oil &
WORCESTER						Haz.
CENTER BLVD	MEDICAL CITY	RAO	12/4/00	IV	A3	Mat.
81 SUMMER ST	GAS N GO SUNOCO	RAO	10/2/96			
25 ST JOHNS RD	L FARBER CO	RAO	9/16/97		A2	Oil
82 WEST BOYLSTON ST	MCFEE & NEWTON	RAO	9/26/08		B1	
390 BELMONT ST	MOBIL STATION	RAO	11/1/99		A2	Oil
205 CHANDLER ST	MUIRS BUILDING & PROPERTY	LSPNFA	1/23/97			
456 GRAFTON ST	CUMBERLAND FARMS	RAO	12/28/95		A2	
29 ALBANY ST	DPW GARAGE	RAO	7/3/01	III	A3	
255 PARK AVE	PARKVIEW OFFICE TOWER	RAO	1/6/95		B1	Oil
90 MAY ST	WHITAKER REED CO	RAO	5/1/95		A3	Oil
30 141111 31	PARKWAY MOBIL	1010	5,2,55			
409 PARK AVE	STATION 01 PFC	RAO	2/14/03		А3	
27 33 SHREWSBURY ST	PATS SERVICE STATION	RAO	10/16/01		C1	
352 BELMONT ST	GETTY STATION FMR	PENNFA	6/18/96			Oil
15 PUTNAM LN	OIL TERMINAL FMR	RAO	1/27/05	П	A2	Oil
357 PARK AVE	GULF BP STATION FMR	RAO	8/3/98	11		
979 MILLBURY ST	WORC HOUSING AUTH.	RAO	5/1/96		B1	Oil
1310-1312 GRAFTON ST	CITGO STATION	RAO	7/1/96		NC	Oil
26 QUEEN ST	WORC CITY HOSPITAL	REMOPS	6/6/07	ν	140	Oil
442-446 PARK AVE	HENRYS WALLPAPER	WCSPRM	5/11/92			Oil
THE THOU PRINCIPLE	BOSTON & MAINE	WCS: IIIV	5/11/52			Haz.
BYRON ST	RAILROAD YARD	RAO	8/9/96			Mat.
511101151	STAR ENTERPRISE	1010	0,5,50			ivide.
340 GROVE ST	TEXACO	RAO	8/25/00	Ш	A2	
69 ARMORY ST	WRIGHT MACHINE CORP	RAO	12/1/06	IV	C2	
527 SOUTHWEST	William William Collins	1010	12,1,00			
CUTOFF	SUNOCO STATION	RAO	11/1/96		A2	
185 PARK AVE	MOBIL STATION 01-EL5	RAO	2/15/02	v	C2	
200 1741117172	MARANE	1010	2/25/02	•	U.E.	
1429 GRAFTON ST	TEXACO STATION	RAO	7/9/02	v	A2	Oil
7-9 CANTERBURY ST	SCRAP METAL YARD	RAO	7/30/04	īV	A3	Oil
EXCHANGE ST	TENTE ITALE	10.0	1,50,04		- 10	
WORCESTER CTR BL	PARCEL 35	WCSPRM	5/5/98			Oil

41 ROCKDALE ST	KOMTEK INDUSTRIES	RAO	11/17/97	IV	A3	Oil
	STANDARD LOCK					
1451 GRAFTON ST	WASHER	RAO	11/28/01	П	A2	Oil
514 WEST BOYLSTON						
ST	JACKS GETTY	RAO	5/1/01	Ш	A2	Oil
160 GOLD STAR BLVD	WRIGHT LINE INC	DPS	11/18/96			Oil
51 BALLARD ST	GAS N GO FMR	RAO	5/31/05		C1	Oil
4 EAST CENTRAL ST	USPS WORCESTER	RAO	5/6/98		NC	Oil
	RILEY STOKER					
45 MCKEON RD	RESEARCH CTR	WCSPRM	10/18/94			
263 GRAFTON ST	EL DAUPHINAIS INC	DPSTRM	7/12/11	V		Oil
	DUQUETTE					
690 GRAFTON ST	SERVICE STATION	RAO	8/25/03	III	A2	
248 LINCOLN ST	LINCOLN ST TEXACO	RAO	7/15/99	Ш	A2	
7 WEST BOYLSTON ST	WINDSIR RESTAURANT	WCSPRM	2/1/93			Oil
72 COES ST	CK COMPANY INC	TIER 2	2/21/07	IV		Oil
150 GROVE ST	WRIGHT LINE	RAO	6/29/04		A2	
	NEW ENGLAND					
166 STAFFORD ST	TELEPHONE	RAO	12/27/95		A2	Oil
	GESSNER CORP					
41 FREMONT ST	GHM INDUSTRIES	RAO	7/14/98	П	A2	Oil
30 CHANDLER ST	MOBIL SERVICE STA	RAO	1/12/00	IV	A2	
450 496 MILLBURY ST	PETERSON OIL CO	RAO	8/27/07	٧	A2	Oil
882 WEST						
BOYLSTON ST	BOBS SUMMIT AUTO	RAO	8/6/97		A2	Oil
601 619 LINCOLN ST	LINCOLN ST PROPERTY	RAO	8/24/04	III	A2	Oil
90 HARDING ST	PATRICK MOTORS	RAO	12/31/04	٧	A2	
SKYLINE DR	WORC AIR NATL GUARD	RAO	6/18/99	III	A2	
236 SOUTHWEST						
CUTOFF	SERVICE STA FMR	RAO	4/7/99		B1	Oil
207 GRAFTON ST	PUBLIC OIL	RAO	9/21/06	IV	A2	Oil
342 PLEASANT ST	CUMBERLAND FARMS	RAO	4/2/98	III	NC	
419 GROVE ST	PROPERTY	LSPNFA	6/19/96			Oil
1256 MAIN ST	BRITE CLEANERS	RAO	7/21/97			Oil
1275 MAIN ST	1275 MAIN ST PROP	RAO	7/20/07	٧	А3	Oil
		RTN				
45 BALLARD ST	CITGO GAS STATION	CLOSED	3/13/01			Oil
692 696 MILLBURY ST	DRYDEN OIL CO	RAO	2/28/01	IV	C1	Oil
544 MILLBURY ST	MILLBURY ST TEXACO	RAO	3/31/06	IV	C1	
1 BALLARD ST	ALS GARAGE	WCSPRM	4/2/96			Oil
510 MILLBURY ST	MILLBURY STREET AUTO	RAO	3/15/04	III	A2	Oil

	SAM JAY REALTY TRUST					
744 MILLBURY ST	FMR S&S	RAO	12/29/06	IV	C1	
670 CAMBRIDGE ST	GAS STATION FMR	RAO	5/3/05	III	A2	Oil
295 SHREWSBURY ST	NE TELEPHONE	RAO	11/2/94		A3	Oil
707 MILLBURY ST	P&B AUTO REPAIR	RAO	8/1/97			
	HERRITAGE					
1200 MILLBURY ST	BUSINESS PARK	RAO	4/30/02	П	B2	Oil
431 MILLBURY ST	PETERSON OIL CO	RAO	8/7/97		A2	Oil
145 HAMILTON ST	TEXS GARAGE	WCSPRM	4/11/96			Oil
6 NEPONSETT ST	NE TELEPHONE	RAO	7/20/95		A2	
779 MAIN ST	SUNOCO STATION	RAO	11/9/93		A2	
77 HIGHLAND ST	TEXACO STATION	RAO	2/25/03	V	A2	Oil
974 SOUTHBRIDGE ST	MOBIL STATION	RAO	4/7/98	П	A2	Oil
702 WEST						
BOYLSTON ST	SUNOCO STATION	RAO	6/30/97		A2	
54 STAFFORD ST	TEXACO STATION	RAO	12/20/96		A2	Oil
193 SOUTHWEST						
CUTOFF	MOBIL STATION	RAO	1/30/97		A2	
950 SOUTHBRIDGE ST	SUNOCO STATION	RAO	5/12/97		B1	Oil
1107 PLEASANT ST	TEXACO STATION	RAO	1/19/00	II	A2	Oil
244 SOUTHWEST						
CUTOFF	TRUCK STOP FMR	RAO	1/27/02	Ш	A2	
189 MAY ST	FAIRLAWN HOSPITAL	RAO	11/22/95		A2	Oil
225-231	ATAMIAN					
SHREWSBURY ST	MOTORS INC	RAO	3/25/05	Ш	A2	Oil
93-95 GRAND ST	GRAND INDUST PARK	TIER 2	6/15/05	II		Oil
	MARANE BULK					
501 PARK AVE	TERMINAL	RAO	8/2/99	II	A2	Oil
310 BELMONT ST	TEXACO STATION	RAO	7/28/97			Oil
939 SOUTHBRIDGE ST	MASS ELECTRIC	RAO	2/20/96		A2	Oil
14 PUTNAM LN	CLAFLIN DONOHUE CO	RAO	5/31/01	V	C1	Oil
399 SOUTHBRIDGE ST	GETTY STATION FMR	RAO	10/15/04	Ш	A3	Oil
		RTN				
81 THOMAS ST	PRIME VALUE MARKET	CLOSED	11/4/94			Oil
375 AIRPORT DR	OLD TERMINAL BLDG	RAO	5/1/95		A2	Oil
	NEAR INT					
LK SIDE AVE	VETERANS AVE	RAO	12/20/93			Oil
	ST JOAN OF ARC					
570 LINCOLN ST	CHURCH	RAO	10/7/94		A2	Oil
4 SUMMERHILL AVE	BELL ATLANTIC	RAO	10/30/94		A2	Oil
2 VERDI RD	NO LOCATION AID	RAO	2/17/06		A2	Oil
939 SOUTHBRIDGE ST	MASS ELECTRIC	RAO	7/30/97	III	A2	Oil

						Oil &
						Haz.
9 CASCO ST	NO LOCATION AID	RAO	7/13/00		A2	Mat.
	IN FRONT OF					
50 KINGSBURY ST	WORCAPPLIANCE	RAO	1/5/94			Oil
	MED CTR OF CTL MA					
119 BELMONT ST	WEST OF HOPPER ST	RAO	10/12/94		A1	Oil
	IMMEDIATE PRIOR TO					
RTE 290W	GRAFTON ST EXIT 14	RAO	12/14/93		A1	Oil
	RADIO OIL CO ACROSS					
34 ALBANY ST	FROM DPW GARAGE	RAO	2/16/94		A1	Oil
	MANHOLES EAST OF	RTN	, ,			
BRIDGE ST	CURES FURNITURE STORE	CLOSED	4/11/95			Oil
DINIDGEST	WORC AIR NAT'L	RTN	4/11/55			OII
50 SKYLINE DR	GUARD BASE	CLOSED	9/7/07			Oil
			8/7/97			
10 MANN ST	NEW YORK TWIST DRILL	TIER 2	3/3/98	٧		Oil
403 BELMONT ST	MHD HQ	RAO	10/2/95		A2	Oil
	REAR OF MILLS RADIATOR					
585 PARK AVE	SERVICE INC	RAO	2/18/94		A2	Oil
	TANK 2 NORIS OIL					
1060 MILLBURY ST	TANK FARM	RAO	1/3/95		A2	Oil
	WORCESTER AIRPORT					
375 AIRPORT DR	MAINTENANCE AREA	RAO	1/12/95	Ш	A2	Oil
11 WESTBROOK RD	PRIVATE RESIDENCE	RAO	2/24/97	Ш	A2	Oil
	NEAR NORTON CO					
NEW BOND ST	NEAR BUILDING 419	RAO	2/7/94		A1	Oil
	NEAR BUILDINGS		27.72			
NEW BOND ST	503 & 419 AND C ST	RAO	2/7/94		A1	Oil
105 MADISON ST	ROOF OF BUILDING 125	RAO	4/1/94		A1	Oil
103 WADISON ST			4/1/54			Oil
267 SUDEWISHIDV ST	AIRLINE LEWIS	RTN	12/10/04			0:1
267 SHREWSBURY ST	VENETIAN BLIND	CLOSED	12/10/94			Oil
						Oil &
	SUPERLAND ASSOCIATES					Haz.
344 PARK AVE	PROPERTY	RAO	10/29/10		C2	Mat.
	ABRASIVES 7					
STORES ST	BUILDING 566	RAO	4/19/94		A1	Oil
		RTN				
14 PUTNAM LN	CLAFLIN & DONAHUE	CLOSED	3/2/95			Oil
	UNITED VAN LINES-					
383 SOUTHBRIDGE ST	DESIGNS & ROSE INC	RAO	4/19/94		A1	Oil

	CROSS ST					
453 LAKE AVE	OAK BEACH TERR	RAO	4/15/94		A1	Oil
	UNITED VAN LINES-		,,			
21 SVENSON AVE	DESIGNS & ROSE INC	RAO	4/28/94		A2	Oil
		RTN	,,			
30 BALLARD ST	PATRIOT METALS	CLOSED	4/1/03			Oil
						Oil &
						Haz.
1148 MAIN ST	MERIT GAS STATION	REMOPS	2/17/10	V		Mat.
648 CHANDLER ST	DUDLEY SERVICE CTR	RAO	7/29/94		A2	Oil
	FRM LANOTTE & SONS					
96 DEWEY ST	BUILDING	RAO	9/8/04	III	A2	Oil
	DAVID CLARK CO MAIN					
360 FRANKLIN ST	BUILDING BOILER RM	RAO	6/6/94		A1	Oil
						Oil &
						Haz.
105 MADISON ST	WYMAN GORDAN CO	RAO	7/21/09	IV	A3	Mat.
						Haz.
WINFIELD ST	PARK AVE	RAO	5/5/94		A1	Mat.
						Oil &
	FLAGSHIP BANK					Haz.
75 77 GOLD STAR BLVD	AND TRUST	RAO	4/29/94	Ш	B2	Mat.
54 STAFFORD ST	GETTY OIL	RAO	9/12/94		A1	Oil
1 NEW BOND ST	NO LOCATION AID	RAO	8/23/94		A1	Oil
22 SACHEM AVE	CHURCH OF CHRIST	RAO	9/24/08		A2	Oil
99 STANTON STREET						
8 EVERARD ST	RESIDENCE	RAO	7/29/94		A1	Oil
1060 MILLBURY ST	USS INDUSTRIAL PARK	RAO	12/13/96	П	A3	Oil
ARRARAT ST	NO LOCATION AID	RAO	8/17/94		A2	Oil
287 GROVE ST	WRTA	RAO	2/20/08	IV		Oil
						Oil &
						Haz.
115 STAFFORD ST	FRM CONCORD WIRE	RAO	2/2/07	IV	A2	Mat.
MILLBURY ST	DRYDEN OIL CO	RAO	9/16/94		A1	Oil
		RTN				
45 BALLARD ST	GETTY GAS STATION	CLOSED	3/13/01	П		Oil
	SERVICE STATION					Haz.
2 BOYLSTON ST	(FMR)	RAO	8/27/96		A2	Mat.
						Oil &
						Haz.
PULLMAN ST	BLDG 45	RAO	10/14/94		A1	Mat.

25 QUINSIGAMOND	COMMONWEALTH					
AVE	GAS CO	RAO	8/21/95		A2	Oil
ALLEN COURT DR	WORCESTER T&G	RAO	11/27/00		A1	Oil
						Haz.
45 PULLMAN ST	G & H WOODWORKING	RAO	6/19/95		B1	Mat.
216 GRAFTON ST	AIELLO FAMILY TRUST	RAO	6/27/95		A2	Oil
149 WASHINGTON ST	STANLEY TOOL BLDG	DPS	7/7/95	III		Oil
566 SOUTHWEST						
CUTOFF	ABRAMSON LN	RAO	10/26/94		A1	Oil
						Oil &
670 WEST	QUINSIGIMOND					Haz.
BOYLSTON ST	COMMUNITY COLLEGE	RAO	4/11/97		A2	Mat.
						Haz.
1078 MAIN ST	MOBIL	RAO	9/18/95		B1	Mat.
		RTN				
29 ALBANY ST	WORCESTER DPW GARAGE	CLOSED	6/5/96			Oil
	ATAMIAN					Haz.
1013 MAIN ST	MOTORS FMR	RAO	8/2/96		B2	Mat.
382 SOUTHBRIDGE ST	ENGINE HOUSE	RAO	12/13/94		A2	Oil
10 NEW BOND ST	CINCINNATI MILACRON	RAO	10/23/95		A2	Oil
32 TERRACE DR	RODOLAKIS PROPERTY	RAO	2/17/95		A3	Oil
50 FRANKLIN ST	BANCROFT	RAO	6/8/95		A2	Oil
35B NEW ST	FMR RAMA REALTY					Haz.
NEW STREET EXT	PROPERTY	RAO	10/30/98	III	B2	Mat.
						Haz.
10 LINCOLN ST	MARRIOTT	RAO	11/14/94		B1	Mat.
99 CRESCENT ST	CK SMITH	RAO	1/10/95		A1	Oil
						Haz.
1060 MILLBURY ST	USS INDUSTRIAL PARK	RAO	7/1/96		B1	Mat.
487 PARK AVE	DAVIDS SERVICE CTR	RAO	4/12/95		A2	Oil
216 GRAFTON ST	AIELLO TRUST PROP	RAO	12/16/97		A3	Oil
23 UPLAND ST	POLE 4	RAO	2/13/95		A1	Oil
130 HIGGINS ST	R&A MACHINE	DPS	12/21/95			Oil
25 WINTHROP ST	ST VINCENTS HOSPITAL	RAO	7/31/01	IV	A2	Oil
40 WALCOTT ST	POLAR BEVERAGE	RAO	12/19/95			Oil
40 WALCOTT ST	POLAR BEVERAGES	RAO	12/19/95		A2	Oil
38 ALBANY ST	NOARS OIL	RAO	4/5/95		A1	Oil
501 PARK AVE	MARINE OIL CO	RAO	3/6/95		A1	Oil
						Haz.
32 CAMBRIDGE ST	UPPER PARKING LOT	RAO	3/23/95		B1	Mat.
305 BELMONT ST	WORCESTER ST HOSP	RAO	9/17/10	III		Oil
328 GREENWOOD ST	ANTHONY ARMS APT	RAO	9/14/95		A1	Oil

430 459	BETWEEN SOUTHGATE					Haz.
SOUTHBRIDGE ST	&HAMMOND ST	RAO	1/25/95	П	B2	Mat.
10 NEW BOND ST	CINCINNATI MILICRON	RAO	2/16/10	III		Oil
25 WINTHROP ST	ST VINCENTS HOSPITAL	RAO	7/31/01			Oil
378 BELMONT ST	NO LOCATION AID	RAO	5/2/95		A1	Oil
	INTERSECTION	RTN				Haz.
340 GROVE ST	GOLD STAR BLVD	CLOSED	6/13/98			Mat.
125 PROVIDENCE ST	GIRLS CLUB	RAO	7/21/95			Oil
702 WEST BOYSTON ST	GETTY GAS STATION	RAO	6/19/95		A1	Oil
280 MAY ST	CORNER OF CHANDLER	RAO	2/13/95		B1	Oil
						Haz.
ABRAMSON LN	FAIR THE	RAO	10/3/97	Ш	A2	Mat.
177 SOUTHWEST	OCONNELL					
CUTOFF	OIL ASSOC	RAO	2/5/07	IV	A2	Oil
						Oil &
						Haz.
333 PLEASANT ST	CROSS ST & MARRICK ST	RAO	5/20/98	Ш	A2	Mat.
	BTWN SCHOOL AND					Haz.
175 MAIN ST	THOMAS ST	RAO	9/25/95		A2	Mat.
305 BELMONT ST	POWER PLANT	RAO	9/17/10	III	A2	Oil
	CATHOLIC CHARITIES					
	OFTHE DIOCESE					
15 RIPLEY ST	OF WORCESTER	RAO	4/17/02	V	C1	Oil
		RTN				Haz.
190 MADISON ST	INT GREEN ST	CLOSED	8/28/96			Mat.
	STANDARD LOCK AND					
1451 GRAFTON ST	WASHER	RAO	11/28/01			Oil
						Oil &
						Haz.
149 WASHINGTON ST	STANLEY TOOLS	RAO	7/21/09	٧		Mat.
350 PLANTATION ST	TROPICAL BANANA CO	RAO	9/11/95		A2	Oil
248 LINCOLN ST	TEXACO	RAO	7/15/99	Ш	A2	Oil
RTE 290E	PAST BROSNIHAN SQ	RAO	7/12/95		A1	Oil
						Haz.
1227 1241 MAIN ST	NO LOCATION AID	RAO	5/24/96	Ш	B1	Mat.
125 PROVIDENCE ST	GIRLS INC	RAO	7/21/95		A2	Oil
		RTN				
22 SACHEM AVE	CHURCH OF CHRIST	CLOSED	6/20/95			Oil
RTE 290E	JUST BEFORE EXIT 21	RAO	10/5/95		A1	Oil
	JUST SOUTH OF					Haz.
RTE 190N	GREENDALE MALL	RAO	8/10/95		A1	Mat.

	SW CORNER OF PORTLAND					
50 FRANKLIN ST	AND FRANKLIN ST	RAO	5/15/95		C1	Oil
7 BALLARD ST	JJ NISSEN BAKING CO	RAO	6/20/96		А3	Oil
	WORC AIR NAT'L	RTN				
50 SKYLINE DR	GUARD STATION	CLOSED	9/24/98			Oil
	CUMBERLAND FARMS-					
60 SOUTH LUDLOW ST	GULF	RAO	3/15/96		A1	Oil
22 PORTLAND ST	H GLICK AND SONS	RAO	6/28/96		B1	Oil
	INT WITH					Haz.
70 PULLMAN ST	W MOUNTAIN ST	RAO	8/2/02	V	A2	Mat.
	COLLEGE SQUARE					
RTE 290 WESTBOUND	ON RAMP	RAO	8/4/95		A1	Oil
ST JOHNS RD	OFF 230 CAMBRIDGE ST	RAO	9/14/95		A1	Oil
		RTN				Haz.
35B NEW ST	ENSOL	CLOSED	10/28/95			Mat.
500 GRAFTON ST	EDWARD NABHIAN	RAO	7/24/95		A1	Oil
175 MAIN ST	AT&T	RAO	8/12/96		A2	Oil
190 MADISON ST	MERIT STATION	RAO	10/20/95		A2	Oil
38 HIGH ST	ST PAULS CATHEDRAL	RAO	6/30/06		A2	Oil
33 MILLBROOK ST	AMI FUELING FACILITY	RAO	1/17/96	Ш	A2	Oil
						Haz.
243 STAFFORD ST	KETTLE BROOK	RAO	11/13/95		A1	Mat.
239 MILL ST	OCOINS PARKING LOT	RAO	9/16/96		A2	Oil
		RTN				
80 BALLARD ST	US STEEL FMR	CLOSED	9/25/96			Oil
						Oil &
						Haz.
24 ROCKDALE ST	M & D REALTY	DPS	12/18/95			Mat.
						Haz.
24 ROCKDALE ST	M & D REALTY	RAO	12/18/95		B1	Mat.
	GREENWOOD RD					
ABRAMSON LN	& RT 20	RAO	6/19/96		A1	Oil
18 AUDUBON RD	RESIDENCE	RAO	10/2/96		A2	Oil
		RTN				
450 MILLBURY ST	PETERSON OIL	CLOSED	6/16/97			Oil
170 BELMONT ST	BELMONT ST SCHOOL	RAO	5/1/96		A2	Oil
	CINCINNATI MILICRON	RTN				
10 NEW BOND ST	MW5 AREA 2	CLOSED	1/17/96			Oil
	CINCINNATI MILICRON	RTN				
10 NEW BOND ST	MW11 AREA 5	CLOSED	1/17/96			Oil

	WORC AREA ASSOC FOR					Haz.
81 HOPE AVE	RETARDED CHILDREN	RAO	6/22/07	IV	A2	Mat.
						Haz.
1475 MAIN ST	MILLBROOK FACILITY	RAO	12/22/95		B1	Mat.
656 PARK AVE	JIFFY LUBE	RAO	12/26/95		A1	Oil
						Oil &
	ARBRAMSON LANE					Haz.
GREENWOOD ST	(FORMERLY THE FAIR)	RAO	8/29/96		A2	Mat.
640 LINCOLN ST	NELES JAMESBURY	RAO	5/16/96		A1	Oil
						Oil &
						Haz.
440 GROVE ST	WORC ATHLETIC CLUB	DPS	12/5/95			Mat.
176 GREEN ST	GENERAL AUTOMOTIVE	RAO	6/4/96		B1	Oil
	CATHOLIC CHARITIES OF THE	RTN				
15 RIPLEY ST	DIOCESE OF WORCESTER	CLOSED	4/9/96			Oil
54 STAFFORD ST	GETTY STATION	RAO	12/20/96		A2	Oil
						Haz.
25 51 UNION ST	MARKET STREET	DPS	12/8/95			Mat.
33 MILLBROOK ST	AMI LEASING	RAO	2/23/96		A1	Oil
1 COLLEGE ST	HOLY CROSS COLLEGE	RAO	2/29/96		A1	Oil
36 UPSALA ST	UPSALA SCHOOL	RAO	3/19/96		A3	Oil
60 FREMONT ST	VALKYRIE PROPERTY	RAO	7/24/96		A1	Oil
					ļ.,	Haz.
475 SHREWSBURY ST	STEVENS WALDEN INC	REMOPS	9/29/06	٧		Mat.
UNION ST	RTE 290 OVERPASS	RAO	3/14/96		A1	Oil
29 ALBANY ST	WORC DPW YARD	RAO	4/17/96		A1	Oil
						Oil &
	FMR PULLMAN-STANDARD					Haz.
6 PULLMAN ST	CAR MANUFACT FAC	RAO	11/2/10		C1	Mat.
SOUTHWEST CUTOFF	TRUCK ACCIDENT	RAO	4/22/96		A1	Oil
148 WEST	MORRISON					Haz.
BOYLSTON DR	LUMBER FMR	RAO	3/14/96		B1	Mat.
27 LOUISE ST	RESIDENTIAL SPILL	RAO	5/10/96		A2	Oil
39 CLEARVIEW AVE	RESIDENCE	RAO	12/10/96		A2	Oil
RTE 290W	NEAR HOLY CROSS COLLEGE	RAO	5/7/96		A1	Oil
1180 MILLBURY ST	EXTRA SPACE STORAGE	RAO	3/20/96		B1	Oil
527 GRAFTON ST	GETTY STATION	REMOPS	8/27/04	٧		Oil
75 QUINSIGAMOND	TRANSFORMER					
AVE	RELEASE	RAO	5/29/96		A1	Oil
RUNWAY 1129	WORCESTER AIRPORT	RAO	5/16/96		A1	Oil

323 WEST BOYLSTON						
ST	KENYON OIL	RAO	4/26/99	III	A2	Oil
6 PULLMAN ST	FOURNIER LEASING	ROSTRM	11/2/10	V		Oil
130 HIGGINS ST	LUTCO TOOL CO	RAO	12/3/07	II	A2	Oil
						Haz.
40 ROCKDALE ST	KOMTEK	RAO	4/29/97		B1	Mat.
	INTRANSIT CONTAINER					
53 WISER AVE	CORP	RAO	8/12/96		A1	Oil
						Haz.
NEW BOND ST	BUILDING 108	RAO	7/24/96		A1	Mat.
						Haz.
1 NEW BOND ST	BUILDING 108	RAO	11/22/96		A1	Mat.
1066 1074 MILLBURY		RTN				
ST	P&W RR PARCEL B	CLOSED	7/24/96			Oil
271 FRANKLIN ST	CONRAIL	RAO	8/6/96		A1	Oil
545 SOUTHBRIDGE ST	PAINT FIRE	RAO	10/16/96		A1	
		RTN				
501 PARK AVE	MARANE OIL CORP	CLOSED	9/4/97			Oil
						Oil &
						Haz.
574 578 MILLBURY ST	CARVILLE PROPERTY	RAO	10/29/96	Ш	B2	Mat.
562 572 MILLBURY ST	IRISH CLUB	RAO	8/20/96	Ш	B1	Oil
	ļ					Haz.
184 PROVIDENCE ST	DENNIS SHINE POOL	RAO	7/23/96		A1	Mat.
	ļ	RTN				
38 HIGH ST	ST PAULS CATHEDRAL	CLOSED	8/30/96			Oil
HERMON ST	WORC STORAGE CO	RAO	9/12/96		A1	Oil
						Oil &
60 QUINSIGAMOND	WORC DPW COMBINED					Haz.
AVE	SEWER OVERFLOW STA	RAO	6/19/03	Ш	B2	Mat.
99 CRESCENT ST	CK SMITH & CO INC	RAO	5/5/97		A2	Oil
	BOSTON&MAINE			-		
BYRON ST	RAILROAD YARD	RAO	7/16/97		A3	Oil
390 BELMONT ST	HYDRAULIC SPILL	RAO	10/15/96		A1	
240 250 2424 445	CITY OF WORKERS ON	240	7/7/07		4.2	Haz.
248 256 PARK AVE	CITY OF WORCESTER DPW	RAO	7/7/97		A2	Mat.
VANCAC CT	ACROSS FROM	DAG	0/0/00			Haz.
KANSAS ST	ENV INC	RAO	8/9/96		A1	Mat.
EASTAFFORD CT	CETTVETATION	240	12/20/00			Haz.
54 STAFFORD ST	GETTY STATION	RAO	12/20/96			Mat.
2 PULLMAN ST	LEAKING USTS	RAO	6/30/97	Ш	A2	Oil
804 MILLBURY ST	TRUCK ACCIDENT	RAO	10/2/96		A1	Oil

375 AIRPORT DR	WORCESTER AIRPORT	RAO	9/27/96		A2	Oil
53 NORTHBORO ST	JARMAX REALTY TRUST	RAO	4/8/97		A3	Oil
22 GRAFTON ST	ROADWAY RELEASE	RAO	12/12/96		A1	Oil
287 GROVE ST	WRTA	RAO	2/20/08			Oil
						Haz.
141 HIGGINS ST	BROOKS ST	DPS	12/4/97	Ш		Mat.
1107 PLEASANT ST	TATNUCK SQ TEXACO	RAO	1/19/00	III	A2	
250 FRANKLIN ST	ROADWAY ACCIDENT	RAO	11/22/96		A2	Oil
185 JUNE ST	BUS ACCIDENT	RAO	12/2/96		A1	Oil
	LILY TRANS-					
789 GRAFTON ST	PORTATION CO	RAO	12/4/96		A2	Oil
1060 MILLBURY ST	MILLBURY AND RTE 146	RAO	12/13/96		A3	Oil
1 APPIAN WAY	HOBBS FASTENERS	RAO	10/24/97		A3	Oil
48 GODDARD MEM DR	TRANSFORMER	RAO	12/20/96		A2	Oil
25 WINTHROP ST	ST VINCENTS HOSP	RAO	12/19/96		A1	
390 BELMONT ST	GETTY	RAO	7/13/00	III	A2	Oil
1060 MILLBURY ST	BALLARD ST	RAO	1/8/97		A1	Oil
360 FRANKLIN ST	DAVID CLARK INC	RAO	10/29/96		A2	Oil
30 CHANDLER ST	MOBIL SERVICE STA	RAO	1/12/00	Ш	A2	Oil
		RTN				
1107 PLEASANT ST	TEXACO STATION	CLOSED	9/12/97			Oil
690 GRAFTON ST	DUQUETTE SERVICE STA	RAO	8/25/03			Oil
RTE 290E	E CENTRAL ST	RAO	5/30/97		A1	Oil
38 HIGH ST	ST PAULS CATHEDRAL	RAO	2/3/97		B1	Oil
701 LINCOLN ST	MA ARMY NAT GUARD	RAO	10/4/00		A2	Oil
72 SHREWSBURY ST	EDWARD BUICK	RAO	4/10/97		A2	Oil
13 DARTMOUTH ST	DARTMOUTH ST SCH	RAO	9/17/02	III	A3	Oil
						Oil &
						Haz.
16 BROOK ST	ROCKDALE ST	RAO	11/18/97	Ш	A3	Mat.
216 GRAFTON ST	85 GREEN ST TRUST	RAO	12/16/97			Oil
626 CHANDLER ST	GETTY STATION	RAO	7/2/99	Ш	A1	Oil
	INTERSECTION WITH					
SOUTHWEST CUTOFF	MASSASOIT RD	RAO	1/29/98		A1	Oil
27 WESTBROOK AVE	MARANE OIL HEAT INC	RAO	3/25/97		A1	Oil
		RTN				
490 MILLBURY ST	PETERSON OIL	CLOSED	6/16/97			Oil
	WORCESTER AIRPORT					
375 AIRPORT DR	OLD CENTRAL TOWER	RAO	3/28/97		A2	Oil
389 MILLBURY ST	MILLBURY ST SCHOOL	RAO	4/11/97		A1	Oil
	ELM PARK COMMUNITY					
23 NORTH ASHLAND ST	ELEMENTARY SCHOOL	RAO	2/7/97		B1	Oil

		RTN				
77 HIGHLAND ST	TEXACO STATION	CLOSED	4/29/98			Oil
SWAN AVE	POLE 19	RAO	4/9/97		A1	
		RTN	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
2 KANSAS ST	NAPL	CLOSED	7/12/97	П		Oil
	PERKINS FARM					
935 GRAFTON ST	MARKETPLACE	RAO	3/20/98		A3	Oil
		RTN				Haz.
2 KANSAS ST	CAMBRIDGE ST	CLOSED	7/12/97			Mat.
	TOOMEYS					Haz.
35 PARK AVE	RENT ALL CENTER	RAO	5/23/97		A2	Mat.
141 GROVE ST	WORCESTER FIRE STA	RAO	5/14/97		A1	Oil
350 SOUTHBRIDGE ST	UNDER RR BRIDGE	RAO	5/15/97		A1	Oil
190 MADISON ST	MERIT GAS STATION	DPS	3/17/97			
	ST CATHERINE					
1 WISER AVE	OF SWEDEN	RAO	5/19/99	II	A2	Oil
125 HAMILTON ST	NO LOCATION AID	RAO	4/27/99	II	A2	Oil
		RTN				
490 MILLBURY ST	PETERSON OIL	CLOSED	6/16/97			Oil
	GOLDSTAR					
410 GROVE ST	PARTNERS LLC	RAO	1/25/04		A3	Oil
1 NEW BOND ST	NORTON CO	RAO	11/26/97		A1	Oil
RTE 290E	AT EXIT 21	RAO	7/24/97		A2	Oil
263 GRAFTON STREET	LOT 2C	DPS	11/28/11			Oil
	CHEMICAL SALES					
45 FREMONT ST	SERVICE	RAO	7/24/97		A1	
4 EAST CENTRAL ST	WORC POST OFFICE	RAO	10/1/97		A1	
	SWIP 3 SONS					
65 ARMORY ST	TRUCKING BLDG	SPECPR	7/30/08			Oil
549 PARK AVE	EASTERN AUTO BODY	RAO	8/8/97		A1	Oil
		RTN				
305 BELMONT ST	WORCESTER ST HOSP	CLOSED	12/16/97			Oil
25 WESTCHESTER ST	MERCY CTR	RAO	10/27/97		A2	Oil
702 WEST BOYLSTON						
ST	GETTY GAS STATION	RAO	10/30/97		A2	Oil
			a / = / = -			Haz.
PARCEL B	WASHINGTON SQ	RAO	6/5/97		B1	Mat.
	BURNCOAT					0.11
135 BURNCOAT ST	MIDDLE SCHOOL	RAO	11/14/02	Ш	A2	Oil
		210	m /s = /==			Haz.
WASHINGTON SQ	PARCEL A	RAO	7/18/97		B1	Mat.

						Haz.
2 PULLMAN ST	MNL-CSL LLC	RAO	9/29/06	п	A3	Mat.
			-,,			Haz.
10 PULLMAN ST	CNE INC	RAO	9/29/06	п	A3	Mat.
			-,,			Haz.
40 PULLMAN ST	CNE INC	RAO	9/27/06	п	B1	Mat.
926 WEST			-,,			Haz.
BOYLSTON ST	NORTH END MOTORS	STMRET	12/31/03			Mat.
						Haz.
13 HOPE AVE	BLOCH NE INC	REMOPS	7/18/11	v		Mat.
64 BEACON ST	COME PLAY PRODUCTS	RAO	7/20/05		A2	Oil
	BRIDGE OVER		.,,			
RTE 290W	LAKE QUINSIGAMOND	RAO	11/5/97		A1	Oil
1233 MAIN ST	GAS STA FMR	REMOPS	9/28/04	V	-	
	CNR DUXBURY AND					
275-281 LINCOLN ST	LINCOLN ST	RAO	9/17/08		A2	Oil
33 37 MASSASOIT RD	LADY OF LORETO	RAO	7/7/98		A2	Oil
33 37 113 1337 13011 113	DID! OF LONE!	RTN	.,.,50			
527 GRAFTON ST	GETTY REALTY CO	CLOSED	4/11/02			Oil
SEP CHILITOTES	ST JOSEPHS HOME	RTN	4,22,02			O.I.
52 HIGH ST	FOR WOMEN	CLOSED	2/27/02	Ш		Oil
5211101151	TON WOMEN	CLOSED	2/2//02			Haz.
248 LINCOLN ST	TEXACO STATION	RAO	9/29/98		A1	Mat.
2.10 2.110 2.11 2.1	BURNCOAT	RTN	3,23,30		- 12	
135 BURNCOAT ST	MIDDLE SCH	CLOSED	5/26/01			Oil
200 001111011101		-	5,25,52			
	BROWNING-FERRIS INDUST					
69 NELSON PL	ROADWAY RELEASE	RAO	12/12/97		A1	Oil
OF HELDONINE	HAHNEMANN	RTN	,,		- 12	
275-281 LINCOLN ST	HOSPITAL	CLOSED	9/15/98			Oil
	POWERTEST	RTN				
390 BELMONT ST	SERVICE STATION	CLOSED	12/11/97			Oil
72 SHREWSBURY ST	GMC TRUCK	RAO	8/12/97		B1	Oil
440 LINCOLN ST	ALL AMERICA	RAO	4/29/98		A2	
81 SUMMER ST	GAS N GO FMR	RAO	2/26/98		A2	Oil
	ST JOSEPHS HOME	RTN				
52 HIGH ST	FOR WOMEN	CLOSED	9/25/98			Oil
	RAND WHITNEY					
1 AGRAND ST	CONTAINER	RAO	10/15/98		A2	Oil
1 NEW BOND ST	MILL 7	RAO	1/5/98		A1	Oil
	CHANCELLORY OF		0.440.400			0.11
49 ELM ST	WORC ARCH DIOCESE	RAO	3/19/98		A2	Oil
448 SOUTHBRIDGE ST	INTRANSIT TRUCK YARD	RAO	3/12/98		A1	Oil

61 SOUTH LUDLOW ST	CUMBERLAND FARMS	RAO	10/27/99	Ш	A2	Oil
193 195 LAKE AVE	FORMER MARINA	RAO	12/22/00		B2	Oil
						Haz.
680 CAMBRIDGE ST	MYSTERY DUMPING	RAO	1/26/98		A1	Mat.
	WORCESTER ROLLED		-,,			Haz.
100 250 BARBER AVE	STEEL FMR	RAO	1/30/03	v	А3	Mat.
207 GRAFTON ST	PUBLIC OIL FACILITY	TIER1D	7/7/08	_	713	Oil
487 PARK AVE	TEXACO STA	RAO	2/9/98		A1	Oil
407 FARRAYE	TEARCO STA	RTN	2/3/30		71	Oil
527 GRAFTON ST	GETTY STATION	CLOSED	4/11/02			Oil
10 ROYAL RD	RESIDENCE	RAO	6/25/99	п	A2	Oil
75 GROVE ST	PARKER AFFILIATES	RAO	1/12/99		A1	Oil
75 01107251	Transcarra Tearres	1010	2/22/33		712	
72 GROVE ST	72 GROVE ST PARKING LOT	RAO	3/23/99		А3	Haz. Mat.
	72 GROVE ST PARKING LOT	INAU	3/23/33		A3	iviat.
INTERSECTION OF	DAME OF BOUTE 300	DAG	4/15/00			Oil
RTES 290 190	RAMP OF ROUTE 290	RAO	4/15/98		A1	
939 SOUTHBRIDGE ST	MA ELECTRIC	RAO	9/23/09	V	C1	Oil
						Oil &
	ALL AMERICA					Haz.
440 LINCOLN ST	FINANCIAL	RAO	2/28/03	Ш	A3	Mat.
75 CRESCENT ST	MARANE OIL HEAT	RAO	2/23/99		A2	Oil
						Oil &
	LEYDEN					Haz.
2 SHERMAN ST	DEVELOPMENT CORP	RAO	5/13/98	Ш	A3	Mat.
	FORMER NATIONAL	RTN				Haz.
70 JAMES ST	STANDARD CO	CLOSED	7/10/06			Mat.
	GETTY					Haz.
1264 GRAFTON ST	SERVICE STATION	RAO	11/14/00	Ш	A2	Mat.
	TIVERTON PKWY					Haz.
1107 PLEASANT ST	CORNER OF	RAO	4/26/00		A2	Mat.
						Oil &
	WORCESTER	RTN				Haz.
29 ALBANY ST	DPW YARD	CLOSED	7/8/98			Mat.
195 EASTERN AVE	RESIDENCE	RAO	4/2/99		A2	Oil
75 CRESCENT ST	MARANE OIL HEAT INC	RAO	2/23/99		A2	Oil
INTERSTATE 290	EXIT 17 EAST	RAO	7/2/98		A1	Oil
			.,2,55			
						Oil & Haz.
1093 PLEASANT ST	TATNUCK SCHOOL	RAO	6/22/98		A2	Mat.
1033 FLEMSMITT ST	TATROCK SCHOOL	INO	0/22/30		MZ	
	NORTH OF					Oil &
1227 MAIN CT	NORTH OF	DAG	11/6/00		42	Haz.
1227 MAIN ST	WEBSTER PLAZA	RAO	11/6/98		A2	Mat.

		RTN				
490 MILLBURY ST	PETERSON OIL SERVICE	CLOSED	4/27/00			Oil
CORRINE ST	POLE 1	RAO	8/3/98		A2	Oil
	BORDER OF RTES 99					
CRESCENT ST	75 AND CRESCENT ST	URAM	6/18/98			Oil
515 SOUTHBRIDGE ST	WIRE AND SCRAP METAL SEPARATION CO	RAO	8/28/98		A2	Oil
2 BROOK ST	OS WALKER CO	RAO	9/17/98		A2	Haz. Mat.
111 SHREWSBURY						Haz.
17 EAST WORCESTER	CORNER OF S HILL ST	RAO	7/2/99		A2	Mat.
616 CHANDLER ST	CUMBERLAND FARMS	RAO	7/28/99		A2	Oil
4 FIRTH ST	NO LOCATION AID	240	7/20/00			Haz.
1 FIRTH ST	NO LOCATION AID	RAO	7/29/98		A1	Mat.
165 BALLARD ST	ALLIED METAL PRODUCTS	RAO	12/3/98		A2	Oil
54 ROCKDALE ST	VELLUMOID FACILITY	RAO	11/27/06	٧	C1	Oil
		RTN				
77 HIGHLAND ST	GETTY PROPERTIES CO	CLOSED	3/2/01			Oil
20 WORCESTER						
CENTER BLVD	MED CITY	RAO	10/26/98		A1	Oil
40 WALCOTT ST	POLAR BEVERAGES	RAO	10/28/98		A1	Oil
RTE 290 W	COLLEGE SQUARE	RAO	10/27/98		A2	Oil
33 BEACHMONT ST	RESIDENCE	RAO	12/22/98		A2	Oil
53 CEDAR ST	NAJEMI PROPERTY	RAO	11/16/98	Ш	A2	Oil
375 AIRPORT DR	WORC REG AIRPORT	REMOPS	3/19/09	ν		Oil
						Haz.
234 BROOKS ST	85 GREEN ST TRUST	RAO	9/28/98		B1	Mat.
		RTN				
105 MADISON ST	WYMAN GORDON	CLOSED	5/24/99			Oil
11 CANTERBURY ST	WILLIAM F LYNCH	RAO	3/29/01	П	A2	Oil
15 MONROE AVE	RESIDENCE	RAO	7/18/00	П	A2	Oil
	MA HIGHWAY	T				
403 BELMONT ST	MAINTENANCE YARD	RAO	11/20/98		A2	Oil
99 CRESCENT ST	CK SMITH	REMOPS	2/12/04	ν		Oil
33 MILLBROOK ST	AMI TRUCK LEASE	RAO	6/7/04		A2	Oil
501 PARK AVE	MARANE FACILITY	RAO	8/6/99			Oil
						Haz.
556 MASSASOIT RD	ABRANO PROPERTY	DPS	3/7/00			Mat.
35 BALLARD ST	F AND D TRUCKING	RAO	10/30/06	v	A2	Oil
350 GREENWOOD ST	GRENWOOD SERVICE STATION	RAO	7/2/99		A1	Oil

55 LAKE AVENUE N	U MASS MED COMPLEX	RAO	1/4/99		A2	Oil
		RTN				Haz.
70 PULLMAN ST	WM REISNER CORP	CLOSED	1/12/99			Mat.
231 CAMBRIDGE ST	HONEY FARMS	RAO	4/22/03	III	A2	Oil
						Haz.
35 HERMON ST	CHAFITZ PROPERTY	TIER1D	11/15/99			Mat.
40 TEMPLE ST	SAINT JOHNS CHURCH	RAO	1/25/99		A2	Oil
	MASS ELECTRIC					
12 HIGH ST	ROADWAY RELEASE	RAO	1/19/99		A1	Oil
						Haz.
717 PLANTATION ST	FURON	RAO	1/25/99		A1	Mat.
9 LACONIA RD	RESIDENCE	RAO	5/20/99		A2	Oil
	U MASS MED CENTER					
26 QUEEN ST	DE TOX CTR	RAO	3/14/03	Ш	A2	Oil
	WORCESTER SEWER					
11 PROCTOR ST	PUMP STATION	RAO	1/22/99		A2	Oil
		RTN				Haz.
939 SOUTHBRIDGE ST	GARAGE	CLOSED	3/4/99			Mat.
		RTN				
SOUTHBRIDGE ST	399 SOUTHBRIDGE ST	CLOSED	4/16/02	Ш		
20 EAST WORCESTER ST	WORCESTER DPW	RAO	11/13/01	Ш	A3	Oil
115 SOUTHWEST	AF AMORELLO AND SONS					
CUTOFF	INC	RAO	12/22/99		B1	Oil
	IRISH CAR					Haz.
350 MILLBURY ST	CAR FORMER	RAO	1/30/04	III	B1	Mat.
	WORC TRANSMISSION					Haz.
463 MILLBURY ST	FORMER	RAO	6/29/04	III	B1	Mat.
						Haz.
477 MILLBURY ST	WORC TIRE FORMER	RAO	1/30/04	III	B1	Mat.
						Haz.
735 737 MILLBURY ST	TIPPERARY PUB	RAO	4/20/04	III	B1	Mat.
		RTN				Haz.
753 MILLBURY ST	STARR SCRAP METAL	CLOSED	11/26/03	Ш		Mat.
135 MILLBURY ST	NOARS OIL CO	RAO	9/17/99		A2	Oil
185 MADISON ST	EXXON CO	RAO	3/5/99		A1	Oil
	WORCESTER	RTN				
26 QUEEN ST	CITY CAMPUS	CLOSED	12/9/99			Oil
375 AIRPORT DR	DYN AIR FUELLING	RAO	3/23/99		A1	Oil
36 42 HARLOW ST	NEW ST REALTY TRUST	RAO	12/2/99		B2	Oil
MASSASOIT RD	UTILITY POLE NO 46	RAO	1/19/99		A1	
375 AIRPORT DR	WOR REG AIRPORT	RAO	1/31/03	III	A2	Oil
375 AIRPORT RD	WOR REG AIRPORT	RAO	1/31/03	III	A3	Oil

	CHEMICAL SALES					Haz.
45 FREMONT ST	AND SERVICE	RAO	4/5/99		A1	Mat.
RTE 20 AND						
MASSASOIT RD	NO LOCATION AID	RAO	5/5/99		A1	Oil
	LINDBERG					
284 GROVE ST	HEAT TREATING CO	REMOPS	1/30/06	V		Oil
		RTN				
70 JAMES ST	M & I REALTY INC	CLOSED	10/18/99			Oil
85 PRESCOTT ST	PARKER METAL CORP	RAO	4/8/99		A1	Oil
		RTN				
51 BALLARD ST	BALLARD ST SUNOCO	CLOSED	3/13/01			Oil
						Oil &
						Haz.
141 BALLARD ST	GRANGER PROPERTY	RAO	3/3/00		B2	Mat.
						Haz.
625 CHANDLER ST	BOURQUE PROPERTY	RAO	3/3/99		B1	Mat.
	JAMES STREET					Haz.
JAMES ST	TY COBB FIELDS	RAO	12/5/07	Ш	A3	Mat.
514 WEST BOYLSTON			= /4 /04			0.11
ST	JACKS GETTY FORMER	RAO	5/1/01			Oil
2 WESTBROOK CIR	COFFEY RESIDENCE	RAO	12/13/05		A2	Oil
						Oil &
			0 /0 /0 4		-	Haz.
51 GOLD STAR BLVD	FLEET BANK	REMOPS	8/8/06			Mat.
WORCESTER						
CENTER BLVD	MED CITY	RAO	9/24/99		A2	Oil
100 CENTRAL ST	FALLON CLINIC	RAO	6/21/99		A2	Oil
						Haz.
897 GRAFTON ST	YANG OH DRY CLEANER	RAO	4/14/03	IV	A2	Mat.
57 UNION ST	PRIMEDICA TESTING LAB	RAO	7/9/99		A2	Oil
21 BUCKINGHAM ST	RESIDENCE	RAO	5/28/99		A1	Oil
RTE 290 EASTBOUND	MM 9.5	RAO	7/14/99		A1	Oil
		RTN				
1275 MAIN ST	TEXACO FMR	CLOSED	7/26/99			Oil
501 PARK AVE	ABS BRAKE SHOP	RAO	8/6/99	Ш	A2	Oil
		RTN				Haz.
7 9 CANTERBURY ST	SCRAP YARD FMR	CLOSED	9/15/99			Mat.
414 CHANDLER ST	DAIRY MART	RAO	6/21/00		A2	Oil
83 ELM ST	POLE 3	RAO	9/3/99		A2	Oil
514 WEST						Haz.
BOYLSTON ST	PETERSON OIL	RAO	5/3/00		B1	Mat.

	NORTON CO N					
1 NEW BOND ST	OF BLD 519	RAO	1/19/00		A2	Oil
		RTN				Haz.
RTE 146	NEAR 80 BALLARD ST	CLOSED	11/15/01			Mat.
75 GROVE ST	PARKER REALTY CORP	RAO	11/3/04	IV	A1	Oil
2 GROVE ST	WOR VOCATIONAL HIGH SCHOOL	RAO	10/14/11		А3	Oil
55 LAKE AVENUE N	UMASS MEDICAL CTR	RAO	10/22/99		A1	Haz. Mat.
384 SUNDERLAND RD	REDWOOD HILL APTS	RAO	10/21/99		A1	Oil
57 WEST BOYLSTON ST 382 SOUTHBRIDGE ST	MOTIVA ENTERPRISES RAIL ROAD YARD	RAO RAO	8/11/03 12/3/03	IV IV	A2 C1	Oil & Haz. Mat.
302 300 I HBN IDGE 31	RAIL ROAD TARD	NAU	12/3/03	IV	CI	
214 SHREWSBURY ST	UMASS MEMORIAL MRI AND IMAGING	RAO	1/8/07		A3	Oil & Haz. Mat.
	IVIRI AND IIVIAGING	NAU	1/0/0/		A3	IVIdt.
45 GREAT BROOK VALLEY AVE	BLDG 45 GROUP F WHA	RAO	8/29/03	П	A2	Oil
196 LINCOLN ST	HILLTOP FLOWER SHOP	RAO	2/8/00		A2	Oil
	EASTBOUND					
FRANK ST	MILE POST 42.5	RAO	11/15/99		A2	
105 MADISON ST	WYMAN GORDON	RTN CLOSED	9/29/00			
475 SHREWSBURY ST	FORMER STEVENS WALDEN TOOL FACTORY	RTN CLOSED	10/20/00			Oil
544 MILLBURY ST	JEMS OF NEW ENGLAND	RTN CLOSED	11/8/03			Oil
344 MILLOONT 31	JENIS OF NEW ENGLAND		11/0/03			Oil
54 ROCKDALE ST	VELLUMOID INC	RTN CLOSED	6/23/00			Oil
2 BELLE VISTA RD	PIONEER OIL ROADWAY RELEASE	RAO	11/10/99		A1	Oil
RTE 290	RTE 290 N AT RTE 190 N	RAO	12/27/99		A1	Haz. Mat.
68 MALVERN RD	POLE 4	RAO	12/30/99		A1	
		RTN				
99 CRESCENT ST	CK SMITH&CO INC	CLOSED	3/14/00			Oil
66 PROVIDENCE ST	MAHONEY PROPERTY	RAO	1/26/00		A2	Oil
	JEMS OF					
47 HARVARD ST	NEW ENGLAND	RAO	1/24/00		A1	Oil
120 ST NICHOLAS AVE	RESIDENCE	RAO	5/11/00		A2	Oil

						Haz.
477 SOUTHBRIDGE ST	SHELDON PROPERTY	RAO	12/15/99		A2	Mat.
	ACROSS ST FROM 861 MILLBURY ST	Ī				
MILLBURY ST	AT P&W RR	URAM	12/28/99			Oil
57 59 WEST BOYLSTON		RTN				
ST	SHELL STATION	CLOSED	8/12/00			Oil
	PETROLEUM SERVICE	T				
633 GRAFTON ST	OF WORCESTER	RAO	2/18/00		A2	Oil
	RTE 290 AT EXIT 12	T				
RTE 290	BROSNIHAN SQ	RAO	2/8/00		A2	Oil
8 EBENEZER ST	RESIDENCE	RAO	12/18/00		A2	Oil
CARPENTER ST	TANKER THREAT	RAO	2/11/00		A1	Oil
80 BALLARD ST	RTE 146 MHD	DEPMOU	7/7/00			Oil
486 CHANDLER ST	WORCESTER STATE COLLEGE	RAO	3/31/00		A1	
20 EAST WORCESTER ST	SEWER DEPT	RAO	2/2/06	Ш		Oil
		RTN				
207 GRAFTON ST	PUBLIC OIL FMR	CLOSED	9/16/00			Oil
CURTIS PKWY	VARNUM ST	RAO	5/26/00		A2	Oil
65 WATER ST	UTILITY POLE 12-1	RAO	6/14/00		A2	Oil
	MA COLLEGE	T				Haz.
9 NORWICH ST	OF PHARMACY	RAO	11/22/00		B1	Mat.
4 EAST CENTRAL ST	USPS WORCESTER	RAO	8/20/04	Ш	A3	Oil
125 GREEN HILL PKWY	PARKS&REC ADMIN	RAO	6/22/01		A2	Oil
1 NEW BOND ST	NORTON CO THE	RAO	4/17/01		A2	Oil
	CK SMITH&CO INC					Haz.
99 CRESCENT ST	FACILITY	RAO	6/16/00		A1	Mat.
50 RICHLAND ST	ST MARYS HIGHSCHOOL	RAO	8/24/00		A2	Oil
	CHACHARONE					Haz.
71 PULLMAN ST	PROPERTY	RAO	4/10/00	Ш	B1	Mat.
						Oil & Haz.
40 SUTTON LN LOT 4A	LOT 4A	TIER 2	2/5/02	П		Mat.
535 LINCOLN ST	LINCOLN PLAZA	RAO	6/5/00		A2	Oil
		RTN				
527 GRAFTON ST	GETTY STATION	CLOSED	4/11/02			Oil
						Haz.
633 GRAFTON ST	WARNER AVE	RAO	2/15/02		B1	Mat.
						Oil &
						Haz.
55 LAKE AVENUE N	UMASS MED CENTER	RAO	1/3/01		A2	Mat.

						Oil &
		240	c /10 /00			Haz.
53-57 MILLBROOK ST 75 QUINSIGAMOND	AMERICAN POLYMERS INC	RAO	6/19/00		A3	Mat.
AVE	NISSEN BAKERY	RAO	7/28/00		A2	Oil
AVE	NISSEN BAKENT	INAU	1/20/00		AZ.	
						Oil & Haz.
29 ALBANY ST	FANTASIA DR	DPS	12/29/00			Mat.
25 ALDANI SI	OCONNELL WORCESTER	Dra	12/25/00			Haz.
1 DUNCAN AVE	LLC PROPERTY	RAO	8/28/03	п	А3	Mat.
I DONCAN AVE		INO	0/20/03		73	
375 AIRPORT DR	WORC AIRPORT - HANGAR 2 AREA	RAO	4/27/04	IV	B1	Haz. Mat.
373 AIRT ORT DR		IIIO	4/2//04			
375 AIRPORT DR	WORCESTER REGIONAL AIRPORT	RAO	9/1/00		B1	Haz. Mat.
373 AIRFORT DR		INAU	3/1/00		- 51	
375 AIRPORT DR	WORCESTER AIRPORT - GLYCOL RECOVERY AREA	RAO	10/29/04	ш	B1	Haz. Mat.
3/3 AIRPORT DR	GLYCOL RECOVERY AREA	RAU	10/25/04	- 111	DI	
						Oil &
266-270 PARK AVE	BLUE JEANS PIZZA	240	c Ic Ion		42	Haz.
200-270 PARK AVE		RAO	6/6/01		A2	Mat.
04 11005 4175	SEVEN HILLS	RTN	10/25/04			Haz.
81 HOPE AVE	FOUNDATION	CLOSED	10/25/04			Mat.
17 SOUTHGATE PL	SWIP PARCEL 10A	SPECPR	7/30/08			
25 SOUTHGATE ST	SWIP PARCEL 9A	SPECPR	7/30/08			
28 SOUTHGATE ST	PARCEL 4A	RAO	10/8/10	II	B2	
564 SOUTHWEST	PRICE CHOPPER					
CUTOFF	STORE 160	RAO	9/8/00		A1	Oil
						Haz.
141 BALLARD ST	RTE 146	DPS	1/15/04	II		Mat.
	NEW ENGLAND					Haz.
31 GARDEN ST	PLATING FACILITY	RAO	9/27/00		A1	Mat.
						Oil &
						Haz.
185 MADISON ST	TOSCO CORP	RAO	6/12/03	III	B1	Mat.
						Haz.
528 PLEASANT ST	TOSCO CORP	RAO	7/30/03	III	B1	Mat.
						Haz.
446 LINCOLN ST	TOSCO CORP	RAO	11/22/00		B1	Mat.
	MEC GREENDALE					
6 NAPLES RD	SUBSTATION	RAO	9/29/00		A2	
662 MAIN ST	MART BLDG	RAO	11/22/00		A2	Oil
						Haz.
			12/11/00			ndz.

						Oil
112 HARDING ST	PRES MET CORP	RAO	8/15/11		C2	&Haz. Mat.
18 CHESTNUT ST	UNUM PROVIDENT CO	RAO	10/10/00		A2	Oil
SOUTHBRIDGE ST	ROADWAY RELEASE	RAO	8/16/01		A1	Oil
300 TTBRIDGE 31	NOADWAT NEELASE	IIII	0/10/01		71	Haz.
281 PARK AVE	AMOCO STATION FMR	DPS	8/23/00			Mat.
61 MAY ST	AST RELEASE	RAO	9/6/01		A2	Oil
	PROVIDENCE &	RTN				
382 SOUTHBRIDGE ST	WORCESTER RR	CLOSED	11/6/00			Oil
	CONSOLIDATED					Haz.
340 FRANKLIN ST	FREIGHTWAYS	RAO	10/31/00		A1	Mat.
						Haz.
641 CAMBRIDGE ST	WACHUSETT WIRE CO	RAO	10/19/00		A1	Mat.
1 NEW BOND ST	NORTON CO BLDG 117	RAO	9/19/01		A2	Oil
						Oil &
	PRESCOTT ST					Haz.
85 PRESCOTT ST	HOLDINGS PROPERTY	RAO	7/9/04	Ш	B1	Mat.
						Oil &
	PRESCOTT STREET					Haz.
89 PRESCOTT ST	HOLDINGS PROPERTY	RAO	7/31/06	IV	A2	Mat.
0.4 00000000000000000000000000000000000	PRESCOTT STREET	210	4/44/07			Haz.
84 PRESCOTT ST	HOLDINGS PROPERTY	RAO	4/11/07	IV	B1	Mat.
60 60 73 DDECCOTT ST	PRESCOTT STREET	BAO	0/17/01		0.1	Haz.
60 68 72 PRESCOTT ST	HOLDINGS PROPERTY	RAO	9/17/01		B1	Mat.
32 PRESCOTT ST	PRESCOTT STREET HOLDINGS PROPERTY	RAO	9/4/01		B1	Haz. Mat.
32 PRESCOTT ST	HOLDINGS PROPERTY	NAU	5/4/01		- 51	
	PRESCOTT STREET					Oil & Haz.
30 PRESCOTT ST	HOLDINGS PROPERTY	RAO	9/12/01		B1	Mat.
			5,12,01			Oil &
	MASSACHUSETTS					Haz.
6 FARADAY ST	ELECTRIC CO	RAO	2/4/03		A2	Mat.
	GATEWAY PARK					Haz.
75 GROVE ST	PROPERTY	RAO	12/20/01	III	B1	Mat.
523 531 SOUTHBRIDGE	SOUTHBRIDGE STREET					Haz.
ST	LLC PROPERTY	RAO	3/9/04	IV	C1	Mat.
		RTN				Haz.
105 MADISON ST	WYMAN GORDON CO	CLOSED	1/9/01			Mat.
LAKE AVE	UTILITY POLE NO 106	RAO	12/5/00		A1	Oil
DEAN ST	WPI	RAO	12/18/00		A1	Oil

	WORCESTER VOCATIONAL	RTN				
2 GROVE ST	HIGH SCHOOL	CLOSED	11/21/00			Oil
						Haz.
238 SHREWSBURY ST	BARONI PROPERTY	RAO	11/20/00		B1	Mat.
		RTN				Haz.
30 BALLARD ST	PATRIOT METALS FMR	CLOSED	5/1/03	III		Mat.
						Oil &
						Haz.
722 PLANTATION ST	GARREPY PLATERS FMR	RAO	8/23/06		B2	Mat.
JACQUES ST	ROADWAY RELEASE	RAO	3/7/01		A2	Oil
5 MADISON ST	FMR BURWICK BLDG	RAO	6/1/01		A2	Oil
	WYMAN GORDON	RTN				
105 MADISON ST	BLDG 74	CLOSED	1/10/01			Oil
						Haz.
510 PLEASANT ST	DRY CLEANER FMR	TIER1D	11/15/01			Mat.
ATNA ST	WORCESTER ACADEMY	RAO	1/19/01		A1	Oil
OA FOEMONT CT	VECCELLO MODES CO	220	2/25/01			Haz.
84 FREMONT ST	KESSELI&MORSE CO	DPS	3/26/01			Mat.
331 SOUTHWEST CUTOFF RD	MANAGEMENT INC	240	1/22/01			Oil
COTOFF RD	MANAGEMENT INC	RAO	1/23/01		A1	
409 PARK AVE	MOBIL SERVICE STA 10280	RTN CLOSED	7/16/01			Haz. Mat.
719 SOUTHBRIDGE ST	COLLEGE SQ TEXACO	RAO	2/16/01		A1	Oil
638 FRANKLIN ST	MA ELECTRIC	RAO	2/16/01		A1	Oil
193 SOUTHWEST	IVIA ELECTRIC	INAC	2/10/01		VI.	
CUTOFF	GETTY STATION	RAO	2/20/01		A1	Oil
655 PARK AVE	SOVEREIGN BANK	RAO	12/21/01		А3	Oil
						Haz.
446 MAIN ST	SOVEREIGN BANK	RAO	9/21/01		B1	Mat.
18 CHESTNUT ST	UNUM PROVIDENT	RAO	1/24/02		A2	Oil
						Haz.
115 STAFFORD ST	CONCORD TRUST	RAO	2/2/07			Mat.
340 GROVE ST	MOTIVA ENTERPRISES	RAO	4/18/01		A1	Oil
						Oil &
						Haz.
35 ARMORY ST	FROST ASSOC INC	STMRET	6/16/08	IV		Mat.
						Oil &
		RTN				Haz.
440 LINCOLN ST	ALLMERICA FINANCIAL	CLOSED	3/13/01			Mat.
20 HANCOCK HILL DR	MAHER PROPERTY	RAO	3/15/02		A2	Oil

						01.0
						Oil & Haz.
809 GRAFTON ST	FORMER GAS STATION	RAO	2/5/03	п	А3	Mat.
005 011/11 1011 51	WORCESTER GENERAL	1010	2,5,05		713	iviac.
43 CHANDLER ST	REPAIR INC	RAO	1/4/02		A2	Oil
45 CHARDEEN ST	NET PAIN THE	1010	2,4,02		712	
	WORCESTER PARKS					Oil & Haz.
2 GREEN HILL AVE	RECREATION & CEMETARY	RAO	6/22/01		A2	Mat.
2 ONCERTIFICATE	NECKEATION & CEIVETANT	TUNO	0/22/01		n _E	Haz.
101 HIGHLAND ST	HONEY FARMS INC	REMOPS	4/6/10	v		Mat.
333 SOUTHWEST	HONETTAMVISING	ILLIVIOFS	4/0/10	_		IVIOC.
CUTOFF	WASTE MGMT	RAO	4/19/01		A1	
626 CHANDLER ST	GETTY STATION	RAO	9/5/01		A1	Oil
						Oil
						&Haz.
1025 SOUTHBRIDGE ST	ANDERSON PRODUCTS	RAO	1/7/02		A2	Mat.
		RTN	7.,			
75 GROVE ST	GATEWAY PARK	CLOSED	6/8/01			Oil
RTE 290	RTE 290 EXIT 11	RAO	6/25/01		A1	Oil
WIE 250	MIC 230 CAN 12	1010	0,25,01		712	Oil &
		RTN				Haz.
101 HIGHLAND ST	HIGHLAND ASHLAND	CLOSED	3/25/02	п		Mat.
1011110110110101	ROBERTS	CLOSED	3/23/02			Haz.
209 SHREWSBURY ST	SHREWSBURY CORP	RAO	12/6/01		B2	Mat.
55 MILLBROOK ST	DK REALTY TRUST	RAO	7/23/01		A2	Oil
33 WILLDROOK 31	DK NEZETT MOST	1010	7/25/01		n _E	Haz.
61 WEST MOUNTAIN ST	PETERSON STEEL CORP	RAO	3/21/03	п	A2	Mat.
OT WEST MODITIANTS!	KEITH HILL	TUNO	3/21/03		712	Haz.
1023 SOUTHBRIDGE ST	REAL ESTATE TRUST	DPS	10/3/01			Mat.
1 NEW BOND ST	NORTON CO	RAO	8/20/01		A2	Oil
2.7217 20.12 31	BETWEEN PETERSON &	1010	0,20,01			J.,
MILLBURY ST	IRISH PUB	RAO	7/18/02		A1	Oil
WILLEBORT ST		TUNO	7/10/02		71	Oil
287 GROVE ST	WORCESTER REGIONAL TRANSIT AUTHORITY	REMOPS	4/20/11	v		
53 BARRY RD	ROSS RESIDENCE	RAO	1/14/02		A2	Oil
18 STONELEIGH RD	RESIDENTIAL RELEASE	RAO	3/8/09		A1	Oil
10 STORECEIGH RD	NESIDENTIAL NECEXSE	INO	3/0/03		AI	Oil
	IAAAFED IDV INC WALTHAN					
640 LINCOLN ST	JAMESBURY INC WALTHAM LIME & CONCRETE	RAO	5/9/02		A2	Oil
OHO LINCOLN ST	LINE & CONCRETE	IMO	3/3/02		MZ	
40 BELMONT ST	BELMONT TOWERS	RAO	11/21/07	п	A2	Haz. Mat.
			11/21/07	11		iviat.
828 GRAFTON ST	TRANSFORMER	RAO	9/21/01		A2	

1442 GRAFTON ST	AMERCO I LLC	RAO	2/6/02		A2	Oil
	UMASS MEMORIAL					Haz.
26 QUEEN ST	REALTY	RAO	8/17/05	IV	B1	Mat.
						Haz.
43 CHANDLER ST	WORC GENERAL REPAIR	RAO	1/4/02			Mat.
377 PLANTATION ST	BIOVEST INTERNATIONAL	RAO	10/12/01		A2	Oil
72 PRESCOTT ST	MA ELECTRIC CO	RAO	10/5/01		A1	
55 MILLBROOK ST	DK REALTY TRUST	RAO	11/30/04	Ш	A2	Oil
		RTN				Haz.
85 PRESCOTT ST	PRESCOTT HOLDINGS LLC	CLOSED	8/30/02			Mat.
RTE 290 AT EXIT 12	NO LOCATION AID	RAO	7/11/07		A1	
RTE 290 WESTBOUND						
EXIT 13	ROADWAY RELEASE	RAO	11/15/01		A1	Oil
						Haz.
70 CENTRAL ST	WORC CITY OF OPCD	RAO	1/24/02		B1	Mat.
115 BALLARD ST	WORCESTER DPW YARD	RAO	11/13/01		A1	Oil
WEBSTER ST	NATIONAL GRID	RAO	5/16/06	Ш		
937 WEST BOYLSTON			5,20,00			
ST	PROTANOS AUTO SERVICE	RAO	11/13/01		A1	Oil
19 SOUTHWEST						Haz.
CUTOFF	ADM REALTY TRUST	DPS	12/17/01			Mat.
	CANADA IMPERIAL OIL					Haz.
KANSAS ST AT RR SPUR	ASPHALT RELEASE	RAO	10/15/02		A1	Mat.
	GEORGE J SUMMERS					
34 ALBANY ST	TRUCKING INC	RAO	5/9/05	П	A1	Oil
340 GROVE ST	TEXACO SERVICE STATION	RAO	8/8/05	Ш	A2	Oil
	BODYCOTE THERMAL PR -	RTN				Haz.
284 GROVE ST	FMR LINDBERG HT	CLOSED	10/29/09			Mat.
	WORCESTER REGIONAL	RTN				
287 GROVE ST	TRANSIT AUTHORITY	CLOSED	6/24/02			Oil
						Oil &
						Haz.
115 STAFFORD ST	CONCORD TRUST	RAO	1/4/02		B1	Haz. Mat.
115 STAFFORD ST		RAO	1/4/02		B1	
115 STAFFORD ST 190 CAMBRIDGE ST	CONCORD TRUST INTERSECTION OF FREEMONT ST	RAO	1/4/02		B1	
	INTERSECTION OF		12/22/01			Mat.
190 CAMBRIDGE ST	INTERSECTION OF FREEMONT ST AT AITCHISON ST	RAO RAO	12/22/01 2/15/02		A1 A1	Mat.
190 CAMBRIDGE ST SHREWSBURY ST	INTERSECTION OF FREEMONT ST	RAO	12/22/01 2/15/02 2/15/02		A1	Mat.
190 CAMBRIDGE ST SHREWSBURY ST 455 PARK AVE	INTERSECTION OF FREEMONT ST AT AITCHISON ST PEPPERCORNS RESIDENCE	RAO RAO RAO	12/22/01 2/15/02		A1 A1 A1	Mat. Oil Oil
190 CAMBRIDGE ST SHREWSBURY ST 455 PARK AVE 16 BURNCOAT ST	INTERSECTION OF FREEMONT ST AT AITCHISON ST PEPPERCORNS RESIDENCE CITGO - FORMER	RAO RAO RAO RAO	12/22/01 2/15/02 2/15/02 1/14/02		A1 A1 A1	Mat. Oil Oil Oil
190 CAMBRIDGE ST SHREWSBURY ST 455 PARK AVE	INTERSECTION OF FREEMONT ST AT AITCHISON ST PEPPERCORNS RESIDENCE	RAO RAO RAO	12/22/01 2/15/02 2/15/02		A1 A1 A1	Mat. Oil

20 EAST WORCESTER ST	WORCESTER SEWER DEPT	RAO	2/2/06	Ш	A2	Oil
127 SOUTHWEST	CONSOLIDATED					
CUTOFF	RECYCLING CORP	RAO	3/18/02		A1	
853 WEST BOYLSTON						Haz.
ST	DOUBLE G REALTY TRUST	RAO	9/18/02		B1	Mat.
43 CHANDLER ST	SAGARIAN SR PROPERTY	DPS	1/18/02			Oil
						Haz.
115 BALLARD ST	WORC CITY DPW YARD	RAO	12/23/02		A1	Mat.
	ROADWAY RELEASE					
641 LINCOLN ST	AT JAMESBURY	RAO	3/29/02		A2	
		RTN				
809 GRAFTON ST	FORMER GAS STATION	CLOSED	4/22/02	Ш		Oil
						Oil &
GARDNER AND						Haz.
TAINTER ST	GKH PROJECT AREA	RAO	10/23/06	Ш	A3	Mat.
1238 MAIN ST	GATES LANE SCHOOL	RAO	4/30/02		A1	Oil
	PLYWOOD PLUS					
600 PARK AVE	PARKING LOT	RAO	4/12/02		A1	Oil
950 MAIN ST	JONUS CLARK BLD	RAO	3/11/03		A1	Oil
		RTN				
375 AIRPORT DR	WORC REG AIRPORT	CLOSED	7/9/02			Oil
						Oil &
						Haz.
1 WEST BOYLSTON ST	CHACHARONE PROPERTY	RAO	7/19/02		A2	Mat.
						Haz.
747 PLANTATION ST	MOTIVA ENTERPRISES LLC	RAO	3/1/07	V	A2	Mat.
						Haz.
1 NEW BOND ST	FMR NAVY BLDGS	RAO	3/24/03		A2	Mat.
	INTRANSIT					
448 SOUTHBRIDGE ST	CONTAINER INC	RAO	6/18/02		A1	Oil
23 SOUTHWEST	FORMER SERVICE STATION	DAG	4/22/10		63	0:1
CUTOFF PTE 200 WESTBOLIND	FORMER SERVICE STATION	RAO	4/22/10	IV	C2	Oil
RTE 290 WESTBOUND	PANTATION ST ON RAMP MISSIONARY SISTERS OF	RAO	9/5/02		A1	Oil
242 SALISBURY ST	MARY	RAO	4/8/04	п	A2	Oil
SKYLINE DR	POLE 16	RAO	7/9/02		A2	
	MOBIL	RTN	7,5,02		7.12	
334 GRAFTON ST	BUSINESS RESOURCE	CLOSED	10/7/03	v		Oil
	NEW WORCESTER TRAIL	510510	20,1,03	Ė		Oil &
	COURT					Haz.
211-215 MAIN ST	ODONNELL	RAO	4/19/06	Ш	A2	Mat.
ETT-512 MINIM 31	ODOMNELL	ino	4/15/00	101	HZ.	Widt.

		RTN				Haz.
149 WASHINGTON ST	THE STANLEY WORKS	CLOSED	7/26/02			Mat.
390 MAIN ST	SLATER BUILDING	RAO	6/4/03		A1	Oil
	ALLESCHECK					
1174 MAIN ST	PARTNERSHIP	RAO	10/4/02		A2	Oil
RTE 290 E	SHAWS SUPERMARKET INC	RAO	8/6/02		A1	Oil
100 250 BARBER AVE	OLD WORCESTER ROLLED STEEL	RTN CLOSED	8/9/02			
2 KANSAS ST	FMR INDUSTRIAL SITE	RTN CLOSED	1/10/03			Haz. Mat.
	MUTUAL OIL CO		-,,			
1310 GRAFTON ST	STATION 45	RAO	6/18/03		A2	Oil
72 COES ST	FORMER COES KNIFE FACTORY	RTN CLOSED	12/17/07	П		Oil & Haz. Mat.
375 AIRPORT RD	WORC REG AIRPORT	RTN CLOSED	9/24/02			Oil
300 MOWER ST	WEST TATNUCK ELEMENTARY SCHOOL	RAO	8/30/02		A2	Oil
JOO MICHEN ST	ELEMENT SCHOOL	RTN	0,50,02			O.I.
65 TAINTER ST	GKH PROJECT	CLOSED	2/14/03			Oil
16 PLUM ST	UNITED NATURAL FOODS INC	RAO	10/7/02		A1	Oil
79 BEACON ST	AJD ENTERPRISES	RAO	5/5/08	п	А3	Oil & Haz. Mat.
939 SOUTHBRIDGE ST	MA ELECTRIC CO	RAO	10/25/02		A1	
	OCONNELL WORCESTER	RTN				Haz.
1 DUNCAN AVE	LLC PROPERTY	CLOSED	8/30/02			Mat.
42-44 WEBSTER ST	MA ELECTRIC FMR COAL YARD	RTN CLOSED	9/5/03			Haz. Mat.
490 SALISBURY ST	SUBSTATION NEARASSUMPTION COLLEGE	RAO	9/13/06	IV	A2	Oil
77 PERRY AVE	MASS ELECTRIC CO UTILITY POLE 5	RAO	9/19/02		A1	Oil
80 BALLARD ST	US STEEL PROPERTY	RAO	10/14/05			Oil
2 CHARLOTTE ST	HONEY FARMS MINI MART	RAO	4/28/03		A2	Oil
	EXPRESS LEASING INC		40/0/00			0.11
RTE 290 E	ROADWAY RELEASE	RAO	12/5/02		A1	Oil
243 STAFFORD ST	GF WRIGHT STEEL & WIRE CO FMR	RAO	3/31/06	П	A2	Haz. Mat.

						Haz.
27 WALL ST	FRIENDLY HOUSE	TIER 2	10/24/05	IV		Mat.
	ZAPPALA FARMS					
RTE 290 E	ROADWAY RELEASE	RAO	12/12/02		A1	Oil
	OCONNEL WORC LLC	RTN				Haz.
1 DUNCAN AVE	FMR REED AND PRINCE MFG	CLOSED	10/10/02			Mat.
GOLD STAR BLVD	GIROUX BROS TRANS					
AND RTE 190	ROADWAY RELEASE	RAO	12/23/02		A1	Oil
						Haz.
281 PARK AVE	CK SMITH CO INC	RAO	2/28/03		B1	Mat.
		240	7/25/22			Haz.
39 MASON ST	MUIRS INC	RAO	7/25/03		B1	Mat.
CZ O1 CTAFFORD CT	HANDY DAD CHODLY INC	240	11/7/02			Haz.
67 91 STAFFORD ST	HANDY PAD SUPPLY INC	RAO	11/7/03		A2	Mat.
						Oil &
575 PARK AVE	MINIT CAR WASH	RAO	11/7/03		A2	Haz. Mat.
373 PARK AVE	WINT CAR WASH	INNO	11///03		M2	Haz.
540 MASSASOIT RD	HONEY FARMS	RAO	10/23/09	v	B1	Mat.
184 MADISON ST	HESS STATION	RAO	1/21/03	Ť	A1	Oil
503 505 507 509	TIESS STATION	IUNO	1/21/03		71	Haz.
PLANTATION ST	PLANTATION VILLAGE LLC	RAO	11/19/02		B1	Mat.
60 SALISBURY	NORTH HIGH GARDENS	RAO	11/7/03		A2	
			-4.,,			Oil &
						Haz.
747 PLANTATION ST	SHELL STATION	TIER 1C	2/22/03			Mat.
615 WEST BOYLSTON						
ST	GIBBS STATION	RAO	12/17/03	Ш	A2	Oil
						Oil &
	NEW GARDEN PARK					Haz.
31 GARDEN ST	PROPERTY	RAO	9/18/06	IV	A3	Mat.
						Haz.
53 HERMON ST	DANIEL FREELANDER	RAO	6/20/06	II	A3	Mat.
						Haz.
67 91 STAFFORD ST	HANDY PAD SUPPLY INC	RAO	11/7/03			Mat.
		RTN				Haz.
185 PARK AVE	MOBIL STATION 01-EL5	CLOSED	1/12/04			Mat.
22 MEDDICK CT	FRIENDLYHOUSE ING	240	1/0/00			Haz.
32 MERRICK ST	FRIENDLY HOUSE INC	RAO	1/8/03		B1	Mat.

						011.0
						Oil & Haz.
14 WEST BOYLSTON ST	FORMER WOODBURY CO	RAO	1/30/06	п	А3	Mat.
55 SALISBURY ST	WORCESTER ART MUSEUM	RAO	1/9/04		A2	Oil
33 SALISBONT ST	HARRIS OIL CO	ino	2/3/04		712	OII
162 DELEWANDA DR	RESIDENTIAL RELEASE	RAO	6/30/06	ш	A2	Oil
1078 MAIN STREET			5,55,55			Haz.
10 MILL ST	EXXON MOBIL GAS STA	RAO	7/29/03		B1	Mat.
	MUTUAL OIL CO					Haz.
1310 GRAFTON ST	STATION 45	RAO	8/22/03		B1	Mat.
1310 GRAFTON ST	GETTY STATION 45	RAO	8/26/04		A2	Oil
1025-1039						
SOUTHBRIDGE ST	WMH TOOL GROUP INC	RAO	2/19/03		B1	Oil
1025-1039						Haz.
SOUTHBRIDGE ST	WMH TOOL GROUP INC	TIER 2	12/17/07			Mat.
						Oil &
						Haz.
486 CHANDLER ST	WORCESTER STATE COLLEGE	RAO	2/3/04		A2	Mat.
	MA ELECTRIC CO					Oil &
	SUBSTATION	RTN				Haz.
490 SALISBURY ST	NEAR ASSUMPTION	CLOSED	9/17/03			Mat.
		RTN				Haz.
312 BELMONT ST	HESS STATION 21528	CLOSED	12/13/04	II		Mat.
						Oil &
200 CDOVE ST	HLTH FOUNDATION	240	2/17/05			Haz.
300 GROVE ST	OF CENTRAL MA	RAO	3/17/05	II	B2	Mat.
41 IRIQUOIS AVE	DICK RESIDENCE	RAO	7/14/03		A2	Oil
JACKSON AND SOUTHBRIDGE STS	JACKSON & SOUTHBRIDGE ROADWAY RELEASE	RAO	3/26/03		A1	Oil
300 THBRIDGE 313	NISSAN BAKERY	INNO	3/20/03		- AI	Oil
HARDING ST	LOADING DOCKS	RAO	5/19/03		A1	
TIANDING ST	LOADING BOCKS	IIIO	3/13/03		7.2	01.0
						Oil & Haz.
99 DEWEY ST	MADIGAN PROPERTY	RAO	5/6/05	п	A2	Mat.
	PHO HIEN		2,0,02			
96 DEWEY ST	MEDITATION TEMPLE	RAO	8/26/04		A2	Oil
						Oil &
53-65 CANTERBURY ST						Haz.
85 GARDNER	CITY OF WORCESTER	RAO	10/30/07	П	A3	Mat.
		RTN				
281 PARK AVE	FORMER C K SMITH	CLOSED	6/25/03			Oil

						Haz.
443 LINCOLN ST	BATES AVENUE	RAO	2/24/06	п	A2	Mat.
413 2.11002.1131	WORCESTER	1010	2,24,00			· · · · · ·
375 AIRPORT DR	REGIONALAIRPORT MAINT	RAO	11/19/07		A2	Oil
615 WEST BOYLSTON	neololistani oli ilisalti	1010	11,15,01		712	0
ST	GIBBS STATION	RAO	12/17/03	Ш	A2	Oil
	PROVIDENCE &					
75 HAMMOND ST	WORCESTER RR	RAO	6/4/04		A2	Oil
1255 MILLBURY ST	VALU GAS	RAO	10/10/03		A2	
42 KENWOOD AVE	RESIDENTIAL RELEASE	RAO	9/5/03		A1	Oil
86 AUSTIN ST	WHITTIER TERRACE ASSOC	RAO	5/10/04		B1	
86 AUSTIN ST	WHITTIER TERRACE ASSOC	RAO	5/25/04		A2	
464 HAMILTON ST						
(IN FRNT OF)	HAMILTON ST POLE 62	RAO	9/23/03		A1	
						Oil &
	MASSELECTRIC					Haz.
939 SOUTHBRIDGE ST	HEADQUARTERS	RAO	11/7/03		A2	Mat.
490 MASSWASOIT RD	HURD RESIDENCE	INVSUB	9/16/04			Oil
	SUBSTATION NEAR	RTN				
490 SALISBURY ST	ASSUMPTION COLLEGE	CLOSED	9/17/03			Oil
CENTRAL ST AT						
COMMERCIAL ST	CIRCUS	TIER1D	8/16/04			Oil
	WORCESTER MAINTENANCE					
939 SOUTHBRIDGE ST	GARAGE	RAO	8/25/06	Ш	A3	Oil
SOUTHWEST	CORNER OF RT 20 &					
CUTOFF-WEST	MASSASOIT	RAO	10/28/03		A1	
38 SUTTON LN						
LOTS 4-1 AND 4-2	FORMER AABEC	TIER1D	7/7/08			
926 WEST BOYLSTON						Haz.
ST	COLVEST WORCESTER LLC	RAO	12/31/03		A3	Mat.
106 WOODLAND ST	MAILLOUX RESIDENCE	RAO	1/12/04		A2	Oil
						Oil &
	PARCEL 2A-2B					Haz.
5 BARBARA LN	UST REMOVAL	URAM	4/29/11	Ш		Mat.
	SCHOOL					
89 SHREWSBURY ST	MAINTENANCE BLDG	RAO	2/16/05	Ш	A2	Oil
229 SOUTHBRIDGE ST	NAPAC HOLDINGS LTD	RAO	9/10/04		A2	Oil
105 MADISON ST	WYMAN GORDON CO	RAO	1/20/04		A1	
105 MADISON ST	WYMAN GORDON	RAO	1/20/04		A1	Oil
1 SOUTHWEST CUTOFF	DOUG RUSSEL MARINE	RAO	11/19/03		A1	Oil
1 SOUTHWEST CUTOFF	DOUG RUSSELL MARINE	RAO	11/4/03		A1	Oil

RTE 290 EAST AT RTE					
190	NEAR PETERSON OIL CO	RAO	11/26/03	A2	Oil
	SCHOOL				
89 SHREWSBURY ST	MAINTENANCE BLDG	RAO	12/1/03	A1	Oil
		12.2	,-,		Oil &
	PARCEL 2A-2B	RTN			Haz.
5 BARBARA LN	GRAFTON PARTNERS	CLOSED	9/3/04		Mat.
271 FRANKLIN ST	CSX RAIL YARDS	RAO	4/13/07	A2	IVIGC.
419 BELMONT ST	UMASS MEDICAL CTR	RAO	12/8/03	A1	
419 BELIVIOINT ST			12/0/03	MI	
OO CUDEWCOUDY CT	SCHOOL MAINTENANCE	RTN	0/20/04		011
89 SHREWSBURY ST	BLDG	CLOSED	9/28/04		Oil
133 COBURN AVE	LAKE VIEW SCHOOL	RAO	2/20/04	A2	Oil
442 SOUTHWEST	WASTE MANAGEMENT				ļ.,
CUTOFF	HYDRAULIC RELEASE	RAO	12/22/03	A1	
		RTN			Haz.
70 JAMES ST	FMR NATIONAL STANDARD	CLOSED	7/10/06		Mat.
RTE 190 S (EXIT 3 OFF					
RA	MASS ELECTRIC	RAO	1/15/04	A2	Oil
349 WILDWOOD RD	WASTE MGT				
(IN FRNT OF)	ROADWAY RELEASE	RAO	1/5/04	A1	
	CENTRAL NEW ENGLAND				Haz.
4 PULLMAN ST	WAREHOUSE MNL CJL LL	RAO	3/29/04	B1	Mat.
SAINT JOHNS RD	FORMER L FABER CO	RAO	11/24/04	A1	Oil
225 MAY ST	JUNE STREET	RAO	11/18/03	A2	Oil
	WORCESTER STATE				
486 CHANDLER ST	COLLEGE	RAO	1/26/04	A1	
BURNCOAT STREET					
AND	BURNCOAT PARK				Haz.
RANDOLPH RD	REALTY TRUST	RAO	10/5/04	B1	Mat.
		RTN			Haz.
29 WINFIELD ST	FMR EASTERN AUTO BODY	CLOSED	9/21/11		Mat.
					Oil &
		RTN			Haz.
29 WINFIELD ST	FMR EASTERN AUTO BODY	CLOSED	12/20/04		Mat.
					Oil &
		RTN			Haz.
29 WINFIELD ST	FMR EASTERN AUTO BODY	CLOSED	12/20/04		Mat.
					Oil &
					Haz.
SKYLINE DR	WORC VOCATIONAL HS	RAO	12/16/04	A2	Mat.
465-475 SHREWSBURY	TOTAL TOTAL TOTAL TO		12/10/04	AL	
ST SHREWSBURY	FMR STEVENS WALDEN	RTN CLOSED	5/17/04		Haz. Mat.
				A1	Widt.
719 SOUTHBRIDGE ST	SHELL STATION	RAO	3/4/04	A1	

	CENTRAL					
RTE 290 W	FREIGHTLINES LTD	RAO	6/4/04		A1	
			-,,-			Oil &
						Haz.
10 TOWER ST	STRUB RESIDENCE	RAO	5/11/04		A2	Mat.
42-44 WEBSTER ST	MA ELECTRIC	RAO	5/16/06		A2	Oil
		RTN				
99 CRESCENT ST	CK SMITH CO	CLOSED	8/17/04			Oil
	BLODGETT ST - POLE 1					
BLODGETT ST-POLE 1	RELEASE OFF BELMONT	RAO	3/19/04		A2	
BLODGETT PL	MASS ELECTRIC POLE 1	RAO	3/24/04		A1	
						Haz.
199 CHANDLER ST	FORMER WHITE CLEANERS	RAO	2/3/04		B1	Mat.
115 NORTHEAST	ALLEGRO					
CUTOFF	MICROSYSTEMS INC	RAO	3/30/04		A1	
						Haz.
35 BALLARD ST	HDC ONE LLC	RAO	4/1/04		B1	Mat.
10 NEW BOND ST	FMR CININATI MILACRON	RAO	4/3/06	Ш	A3	Oil
1 JACQUES ST	CNEAD WAREHOUSE	RAO	2/16/07	II	B1	Oil
	PUB 99 RESTAURANT					Haz.
11 EAST CENTRAL ST	& PUB INC	RAO	12/23/04		B1	Mat.
25 WINTHROP ST	ST VINCENTS HOSPITAL	RAO	3/18/04		A1	
						Oil &
						Haz.
71 PULLMAN ST	PULLMAN ST VACANT LOT	RAO	3/9/05		A2	Mat.
						Oil &
						Haz.
402 CHANDLER ST	CHANDLER ST SUBSTATION	RAO	1/8/08	IV	A2	Mat.
		RTN				Haz.
99 DEWEY ST	MADIGAN RESIDENCE	CLOSED	2/18/05			Mat.
		RTN				Haz.
334 GRAFTON ST	MOBIL STATION	CLOSED	10/7/04			Mat.
937 WEST BOYLSTON	FORMER PROTANOS					
ST	SERVICE STATION	RAO	5/2/07	IV	A3	Oil
328 SHREWSBURY ST	UMASS MEM MED CTR	RAO	7/7/04		A1	
						Haz.
310 COBURN AVE	MASS ELECTRIC POLE 46	RAO	7/2/04		A1	Mat.
						Oil &
	HOLY CROSS					Haz.
1 COLLEGE ST	KIMBALL HALL	RAO	11/12/04		A2	Mat.
375 AIRPORT DR	AMITY FLIGHT SCHOOL	RAO	11/5/04		A2	Oil
30 WELLINGTON ST	MASS ELECTRIC	RAO	11/12/04		A1	Oil

						Haz.
100-120 FRONT ST	WORCESTER OUTLET MALLS	RAO	12/10/04		B1	Mat.
						Oil &
						Haz.
11 CANTERBURY ST	WILLIAM F LYNCH CO	RAO	7/6/09	Ш	A2	Mat.
		RTN				
443 LINCOLN ST	FMR SUNOCO STATION	CLOSED	1/6/05			Oil
						Oil &
						Haz.
69 GREEN ST	NEIL SCANNELL	RAO	12/22/04		B1	Mat.
						Haz.
81 HOPE AVE	SEVEN HILLS FOUNDATION	RAO	8/4/04		B1	Mat.
73 641400006567	SALVATION ARMY	240	0/5/04			011
72 CAMBRIDGE ST	PARKING LOT	RAO	8/6/04		A1	Oil
AO NEW DOND CT	CUARTER SCHOOL	240	c la c lor			Haz.
10 NEW BOND ST	CHARTER SCHOOL	RAO	6/16/05		B1	Mat.
KANSAS ST AT	BOADWAY	RTN	2/1/07			Haz.
SHERMAN	ROADWAY	CLOSED	3/1/07		42	Mat.
110 GOLD STAR BLVD 1 COLLEGE ST	EJR REAL ESTATE TRUST HOLY CROSS COLLEGE	RAO	8/4/04 9/23/04		A2 A2	Oil
		RAU	3/23/04		MZ	
MAIN STREET AND SYLVAN ST	ROADWAY SPILL AT WHITE HEN PANTRY	RAO	12/17/04		A1	Oil
SILVANSI	HENTANTRI		12/1//04		NI.	Oil
312 BELMONT ST	HESS STATION 21528	RTN CLOSED	9/28/04			
394 BELMONT ST	DANGELOS	RAO	12/10/04		A2	Oil
334 BELIVIORT 31		ILAO	12/10/04		72	Oil
	UNION STATION BUS TERMINAL					Haz.
2 WASHINGTON SQ	CONSTRUCTION	RAO	12/10/04		A1	Mat.
44 INDIAN HILL RD	KATHLEEN KENNEDY	RAO	9/6/05		A2	Oil
		RTN	-,,,,			
89 SHREWSBURY ST	CITY OF WORCESTER	CLOSED	9/28/04			Oil
135 GODDARD						
MEMORIAL DR	FUEL SPILL	RAO	7/19/05		A1	Oil
	HOLY CROSS-		.,.,.,			
1 COLLEGE ST	FUEL OIL USTS	RAO	7/15/05		A2	Oil
23 SOUTHWEST		RTN				
CUTOFF	FMR SERVICE STATION	CLOSED	6/2/06			Oil
	MORGAN					Haz.
40-88 CRESCENT ST	CONSTRUCTION CO	RAO	10/28/04		B1	Mat.
						Haz.
42 PRESCOTT ST	GATEWAY PARK	RAO	2/9/05		B1	Mat.

41 CUTTON IN	AA DDUNEU	DTN				Hon
41 SUTTON LN LOTS 5 AND 6	AA BRUNELL ELECTROPLATING	RTN CLOSED	11/14/05			Haz. Mat.
LOTS S AND 6	ELECTROPLATING		11/14/03			IVIdt.
101 HIGHLAND ST	HONEY FARMS	RTN CLOSED	11/14/05			Oil
26 ARTHUR ST	PREMIUM FUELS CORP.	RAO	11/14/05		A2	Oil
20 AKTHUK ST	PREINION FOELS CORP.	RAU	7/15/05		AZ	
ADADATET	CAINT CODAIN ADDACTORS	240	11/20/04	-		Haz.
ARARAT ST	SAINT-GOBAIN ABRASIVES	RAO	11/26/04		B1	Mat.
						Oil &
110 UICULAND ST	DVNIANOVING	TIER 2	12/1/05	v		Haz.
110 HIGHLAND ST	DYNAMY INC	HER Z	12/1/05	v		Mat.
405 6114 1101 50 67	WORCESTER STATE	240	2/4/00			Haz.
486 CHANDLER ST	COLLEGE	RAO	3/4/08	III	B1	Mat.
465-475 SHREWSBURY		RTN		-		Haz.
ST	MCDONALDS CORP	CLOSED	10/14/05			Mat.
29 ALBANY ST	WORCESTER DPW	RAO	1/27/05		A1	
RTE 290E AT EXIT 11	SUPERIOR BULK LOGISTICS	RAO	2/24/05		A1	Oil
27 GERMAIN ST	FRANCIS POTTER	RAO	1/17/08	Ш	A2	Oil
49 INSTITUTE RD	WPI	RAO	8/28/06	Ш	A2	Oil
6 PULLMAN ST	CORNELIUS LUCEY	ROSTRM	11/2/10	V		Oil
220 BROOK ST	VERIZON NEW ENGLAND	RAO	8/4/05		A2	Oil
		RTN				
35 ARMORY ST	FROST ASSOCIATES	CLOSED	5/28/09	Ш		
	LIBERTY CENTRAL					
	INDUSTRIAL					
1060 MILLBURY ST	PARK SOUTH	RAO	8/10/05		A3	Oil
	FORMER PETERSON OIL	RTN				
450-490 MILLBURY ST	FACILITY	CLOSED	4/8/05			
	MASSACHUSETTS					11
VERNON ST						Haz.
	ELECTRIC COMPANY	RAO	12/29/05		A1	Mat.
	JP NOONAN T	RAO	12/29/05		A1	
403 BELMONT ST		RAO	12/29/05		A1	
403 BELMONT ST 26 ALBANY ST	JP NOONAN T					Mat.
	JP NOONAN T RANSPORTATION	RAO	4/7/05		A1	Mat.
	JP NOONAN T RANSPORTATION	RAO	4/7/05		A1	Mat. Oil Oil
26 ALBANY ST	JP NOONAN T RANSPORTATION WORCESTER DPW	RAO RAO	4/7/05 5/11/05		A1 A2	Mat. Oil Oil Haz.
26 ALBANY ST 49 CANTERBURY ST	JP NOONAN T RANSPORTATION WORCESTER DPW THOMAS SWEENEY	RAO RAO	4/7/05 5/11/05 7/14/05		A1 A2 B1	Oil Oil Haz. Mat.
26 ALBANY ST 49 CANTERBURY ST	JP NOONAN T RANSPORTATION WORCESTER DPW THOMAS SWEENEY FLETCHER	RAO RAO	4/7/05 5/11/05 7/14/05		A1 A2 B1	Oil Oil Haz. Mat.
26 ALBANY ST 49 CANTERBURY ST 10 MONMOUTH ST	JP NOONAN T RANSPORTATION WORCESTER DPW THOMAS SWEENEY FLETCHER CANLAND	RAO RAO RAO	4/7/05 5/11/05 7/14/05 3/17/06 3/23/06		A1 A2 B1 A2	Oil Oil Haz. Mat. Oil
26 ALBANY ST 49 CANTERBURY ST 10 MONMOUTH ST 32 OXFORD ST	JP NOONAN T RANSPORTATION WORCESTER DPW THOMAS SWEENEY FLETCHER CANLAND ENTERPRISE INC	RAO RAO RAO RAO	4/7/05 5/11/05 7/14/05 3/17/06		A1 A2 B1 A2	Mat. Oil Oil Haz. Mat. Oil Oil Oil
26 ALBANY ST 49 CANTERBURY ST 10 MONMOUTH ST 32 OXFORD ST 38 ALBANY ST	JP NOONAN T RANSPORTATION WORCESTER DPW THOMAS SWEENEY FLETCHER CANLAND ENTERPRISE INC NOARS OIL	RAO RAO RAO RAO RAO	4/7/05 5/11/05 7/14/05 3/17/06 3/23/06 7/27/05		A1 A2 B1 A2 A2 A2	Mat. Oil Oil Haz. Mat. Oil Oil Oil Haz.
26 ALBANY ST 49 CANTERBURY ST 10 MONMOUTH ST 32 OXFORD ST	JP NOONAN T RANSPORTATION WORCESTER DPW THOMAS SWEENEY FLETCHER CANLAND ENTERPRISE INC	RAO RAO RAO RAO	4/7/05 5/11/05 7/14/05 3/17/06 3/23/06		A1 A2 B1 A2	Mat. Oil Oil Haz. Mat. Oil Oil Oil

100 RESEARCH DR	ABBOTT BIORESEARCH CTR	RAO	6/17/05		A2	Oil
						Oil &
						Haz.
143 HAMILTON ST	JAMES CHACHARONE	RAO	4/22/05		A2	Mat.
211 PROVIDENCE ST	WORC PUBLIC SCHOOLS	RAO	6/17/05		A1	Oil
61 SOUTHWEST CUTOFF	CAMASSE MASONRY SUPPLY INC	RAO	5/25/05		A2	
201011	50.121.110	RTN	5,25,05		- 12	Haz.
13 HOPE AVE	13 HOPE AVENUE	CLOSED	7/21/05			Mat.
25 110 12 1112	25 1101 2711 21102	010010	1,22,05			Haz.
158-160 FREMONT ST	THE ABRAMS GROUP	TIER 2	4/28/06	п		Mat.
130 100 110 110 110 110	BODY COAT	RTN	4,20,00			ivide.
284 GROVE ST	THERMAL PROCESSING	CLOSED	10/29/09			Oil
	FMR COME PLAY					Haz.
344 FRANKLIN ST	PRODUCTS	TIER 2	5/15/06	П		Mat.
271 FRANKLIN ST	RAILROAD YARD	RAO	5/15/06		A2	Oil
366-382 SHREWSBURY						
ST	GALLO REALTY CO.	RAO	12/20/05			Oil
						Oil &
814 WEST BOYLSTON						Haz.
ST	RAMSTROMS SUNOCO	RAO	5/30/06		A2	Mat.
	INTSEC OF ONTARIO ST.					
11 TO 125 ONTARIO ST	AND CALUMENT	RAO	6/21/05		A1	
GREENHILL PARKWAY	NSTAR ELECTRIC					Haz.
AND UXBRIDGE ST	& GAS CO	URAM	6/9/05			Mat.
99 CRESCENT ST	CK SMITH	RAO	8/17/05		A1	Oil
97 AYLESBURY RD	RESIDENTIAL PROPERTY	RAO	6/12/06		A2	Oil
	SHELL-BRANDED					Haz.
747 PLANTATION ST	SERVICE STATION	RAO	4/11/06		A2	Mat.
96 WILLIAM ST	RESIDENCE	RAO	10/27/05		A2	Oil
640 LINCOLN ST	RDR INC	RAO	8/29/05		A2	
190 SOUTH EXIT 3	GIVENS TRANSPORTATION	RAO	8/24/05		A1	Oil
	NEAR POWER PLANT CLARK		2,2.,05			
950 MAIN ST	UNIV	RAO	7/13/06		A2	Oil
	DRAKE PETROLEUM CO		, , , , , ,			
687 MILLBURY ST	COMMERCIAL RELEASE	RAO	1/9/12	IV	A2	Oil
1068 WEST BOYLSTON						
ST	ROCKYS CAR WASH	RAO	7/31/06		A2	Oil
						Oil &
CHANDLER STREET AND						Haz.
MAY ST	BEAVER BROOK CULVERT	RAO	7/28/06		A2	Mat.

						Oil &
225-231 SHREWSBURY						Haz.
ST	FMR ATAMIAN MOTORS	RAO	11/10/05		A2	Mat.
						Haz.
38 ALBANY ST	NOARS OIL FACILITY	RAO	9/2/05		A2	Mat.
301 BARBER AVE	SAMS CLUB	RAO	12/15/05		A2	Oil
340 GROVE ST	SHELL SERVICE STATION	RAO	10/24/05		A1	Oil
						Oil &
						Haz.
208 CHANDLER ST	TONYS AUTOMOTIVE	RAO	10/5/05		A2	Mat.
41 WALCOTT ST	POLAR BEVERAGE CO	RAO	11/15/05		A1	
258 BEVERLY RD	TECZAR RESIDENCE	RAO	10/24/07	П	A2	Oil
	FORMER LEASED					
166 STAFFORD ST	VERIZON GARAGE	RAO	12/7/05		A2	Oil
QUEENS STREET AND	MA ELECTRIC CO					
JAQUES ST	CONSTRUCTION SITE	RAO	3/15/06		A1	
	MA HIGHWAY					
510 MILLBURY ST	MANHOLE RELEASE	TIER 2	6/1/09	Ш		Oil
366-382 SHREWSBURY						Haz.
ST	GALLO REALTY COMPANY	RAO	12/20/05			Mat.
3 FARADAY ST	MA ELECTRIC SUBSTATION	RAO	11/30/05		A1	
						Oil &
386-390 SHREWSBURY						Haz.
ST	GALLO REALTY CO INC	RAO	10/19/05		B1	Mat.
	ROME BUILDING					Haz.
18 SHERMAN ST	PRODUCTS	RAO	10/13/09	Ш	A2	Mat.
719 SOUTHBRIDGE ST	SHELL-TEXACO STATION	RAO	12/8/05		A1	Oil
	MORGAN CONSTRUCTION					
15 BELMONT ST	CO	TIER 2	10/16/06	II		Oil
25 BLANCHE ST	RESIDENCE	RAO	3/2/06		A2	Oil
		RTN				
294 BELMONT ST	HI LO GAS STATION	CLOSED	11/10/06			Oil
	FMR MILLBURY STREET	RTN				
687 MILLBURY ST	MOBIL	CLOSED	7/25/06			Oil
	FORMER WORCESTER		0.60.60			
26 QUEEN ST	CITY HOSPITAL	REMOPS	6/6/07	٧		Oil
	WORCESTER					
	COMPREHENSIVE	210	** /** /**			Haz.
875 MAIN ST	CHILDCARE SERVICE	RAO	11/10/06		A1	Mat.
	GFI NORTHBORO ST	210				
53 NORTHBOROUGH ST	BLDG SITE	RAO	1/19/06		A1	

640 PLANTATION ST AT	ESTES EXPRESS ROADWAY					
BOWDIT	RELEASE	RAO	1/13/06		A1	
70 QUINSIGAMOND	HELENDE	RTN	1/15/00		712	
AVE	CASTLE METALS	CLOSED	8/1/06			Oil
1068 WEST BOYLSTON	C. C	CLUBLE	0,2,00			O.I.
ST	FMR ROCKYS CAR WASH	RAO	11/15/11		C2	Oil
1001 SOUTHBRIDGE ST	POLAR FACILITY	RAO	2/6/06		A1	
50 SKYLINE DR	MASS ARMY NAT'L GUARD	RAO	10/31/06		A1	Oil & Haz. Mat.
6 NEW BOND ST	ST GOBAIN ABRASIVES INC	RAO	3/8/06		B1	Oil & Haz. Mat.
91 CAMBRIDGE ST	PETROLEUM CO INC	RAO	4/8/08	п	A2	Oil
	LIBERTY PROPERTIES					
1060 MILLBURY ST	AST RELEASE	RAO	1/16/07		A2	
78 CHILMARK ST	E B LUCE CORP	RAO	12/14/07	Ш	A2	Oil
409 PARK AVE	EXXON STATION 01-PFC	RAO	12/23/08	Ш	A2	Oil
490 WEST BOYLSTON ST	PRIME AUTOMOBILES	RAO	1/25/06		B1	Haz. Mat.
	MEC BAY STATE					Oil & Haz.
939 SOUTHBRIDGE ST	WEST FACILITY	RAO	5/11/06		A2	Mat.
381 CHANDLER ST	US POST OFFICE	RAO	3/6/06		A1	
93-95 GATES ST 2 FRONTENAC RD	UNIVERSITY PARK LOFTS MCCULLOUGH RESIDENCE	RAO RAO	5/25/06		B1 A2	Oil & Haz. Mat.
Z PRONTENAC RD	WICCOLLOUGH RESIDENCE	RAU	12/16/11		AZ	
1393 GRAFTON ST	MRS MACKS BAKERY	RAO	1/19/07		А3	Haz. Mat.
258 BEVERLY RD	TECZAR RESIDENTIAL REL	RTN CLOSED	9/18/06			Oil
	SQUANTUM ST					Haz.
40 SQUANTUM ST	SUBSTATION	RAO	12/22/06		B1	Mat.
		RTN				
294 BELMONT ST	HI-LO GAS STATION	CLOSED	11/10/06			Oil
38 SUTTON LN LOTS 4-1 AND 4-2	KESSELI & MORSE CO	TIER1D	7/7/08			Haz. Mat.
23 SOUTHWEST CUTOFF	FMR SERVICE STATION	RTN CLOSED	6/2/06			Haz. Mat.

150 BLACKSTONE	BLACKSTONE RIVER -					
RIVER RD	LIBERTY PROPERTIES	RAO	4/7/09	П	A2	
324 SOUTHWEST						Oil & Haz.
CUTOFF	FLEET ELECTRIC	RAO	3/23/07		A2	Mat.
59 WEBSTER ST	WEBSTER ST SUBSTATION	RAO	2/12/07		A2	Haz. Mat.
			2/12/07		MZ	
1068 WEST BOYLSTON ST	ROCKYS OIL SERVICE OF WORCESTER INC	RTN CLOSED	12/1/06			Haz. Mat.
						Oil &
937 WEST BOYLSTON						Haz.
ST	PROTANOS SERVICE STA	RAO	5/2/07			Mat.
40 CRESCENT ST	MORGAN CONSTRUCTION CO	TIER 2	10/23/07	п		Oil
25 BYRON ST	NASHUA STREET SUBSTA	RAO	4/15/08	п	A2	Haz. Mat.
556 MILL ST	MEC - MILL ST	RAO	8/7/06		A1	Oil
129-131 SHREWSBURY	WIEC-WIEEST	INC	0,7,00		71	Oil
ST	EAST SIDE LIQUORS	RAO	12/15/06		A2	Oil
BURNCOAT POND	BURNCOAT POND	RAO	9/8/06		A1	
21 CEDAR ST	CHILDRENS FRIENDS INC	RAO	1/5/07		A2	Oil
BENSON AVENUE TO	MASS ELECTRIC					
KNIGHT ST	TRANSFORMER RELEASE	RAO	7/13/06		A1	
I-290 EAST AT EXIT 20	BURNCOAT ST EXIT ROADWAY RELEASE	RAO	10/3/06		A2	Oil
141 GROVE ST	CITY OF WORC FIRE DEPT	RAO	5/31/06		B1	Oil
34 PAINE ST	RESIDENCE	RAO	6/18/07		A1	Oil
STRITEST	KESIDEITCE	IIIO	0/10/07		71	Haz.
305 BELMONT ST	WORC STATE HOSPITAL	RAO	7/14/06		B1	Mat.
10 SAINT PAUL DR	TREISTER RESIDENCE	RAO	11/14/06		A2	Oil
486 CHANDLER ST	WORCESTER STATE COLLEGE	RAO	9/14/06		A1	Haz. Mat.
TOO CHINITOLEN ST	COLLEGE	10.0	3,24,00		712	Oil &
						Haz.
21 INTERVALE RD	NO LOCATION AID	RAO	7/19/06		B1	Mat.
10 HADWEN LN	MASS ELECTRIC CO	RAO	9/18/06		A1	
						Haz.
51 PULLMAN ST	ATLAS PRESS	RAO	7/21/06		B1	Mat.
						Oil &
	FRATERNAL					Haz.
53-55 NORFOLK ST	ORDER OF EAGLES	RAO	8/11/09	Ш	A2	Mat.
75 FLORENCE ST	CLARK UNIVERSITY	RAO	7/26/07		A2	Oil

14 WEST BOYLSTON ST	SHAWS PARKING LOT	TIER1D	8/13/07			Oil
						Haz.
AIRPORT DR	CITY OF WORCESTER	RAO	7/13/07		B1	Mat.
		RTN				
409 PARK AVE	EXXON MOBIL CORP	CLOSED	12/26/06			Oil
332-334 PLEASANT ST	BAHNAN INC	RAO	6/20/12	Ш	A2	Oil
	WORCESTER					
	COMPREHENSIVE					Haz.
875 MAIN ST	CHILDCARE	RAO	11/10/06			Mat.
LENOX ST	CITY OF WORCESTER	RAO	9/27/06		A1	Oil
						Haz.
40 CRESCENT ST	MORGAN CONSTRUCTION	RAO	12/22/06		A2	Mat.
						Haz.
722 PLANTATION ST	FMR GARREPY PLATERS	DPS	8/18/06			Mat.
98-102 ARMORY ST	FMR CITY BUILDERS SUPPLY	RAO	7/14/09	Ш	A2	Oil
	SOUTH WORCESTER					
85 GARDNER ST	INDUSTRIAL PARK	RAO	10/30/07			Oil
MAIN STREET AT	PATRIOT					
OREAD ST	ENVIRONMENTAL CORP	TIER1D	11/8/06			Oil
						Haz.
53 WISER AVE	INTRANSIT CONTAINER CO	RAO	10/31/06		A1	Mat.
						Haz.
65 GRAFTON ST	GRAFTON ST SUBSTATION	RAO	12/22/06		A1	Mat.
126 CHANDLER ST	PL RIDER CO INC	RAO	12/11/06		A2	Oil
128 BROOKLINE AVE	PARENTEAU RESIDENCE	RAO	8/10/07		A2	Oil
220 BROOKS ST	MA ELECTRIC CO	RAO	2/22/07		A2	Oil
270 PARK AVE	BLUE JEANS PIZZA	RAO	10/25/07		A2	Oil
44-46 WEST BOYLSTON ST	EJR REAL ESTATE TRUST	DPS	1/12/07			Oil
75 FLORENCE ST	CLARK UNIVERSITY	RAO				Oil
75 FLOREINCE ST	CLARK UNIVERSITY	KAU	7/26/07			Oll
	FORMER WRIGHT MACHINE					Ues
69 ARMORY ST	FORMER WRIGHT MACHINE CORP FACILITY	TIER 2	11/1/07	п		Haz. Mat.
05 ANWORT 51	WORCESTER CHURCH	RTN	11/1/07	- 11		IVIGE.
22 SACHEM AVE	OF CHRIST	CLOSED	11/1/07			Oil
LL SACHEIN AVE	o. cimoi	CLOSED	11/1/07			
						Oil & Haz.
275-281 LINCOLN ST	UMASS MEM HOSPITAL	RAO	11/8/07		A2	Mat.
50 SKYLINE DR	ARMY NATIONAL GUARD	RAO	1/5/07		A1	Oil
1 UPLAND AND	RAND-WHITNEY	1010	2,5,07		712	J.,
GREENWOOD ST	INDUSTRIES CORP	RAO	1/5/07		A1	Oil

		RTN				
2 FRONTENAC RD	MCCULLOUGH RESIDENCE	CLOSED	11/15/07			Oil
939 SOUTHBRIDGE ST	NATIONAL GRID	RAO	1/30/07		A1	Oil
375 AIRPORT DR	WORC REG AIRPORT	RAO	11/19/07		A1	Oil
72 GROVE ST	NATIONAL GRID REL	RAO	2/5/07		A1	O.I.
75 QUINSIGAMOND	TATIONAL OND NEE	1010	2/5/07		712	Haz.
AVE	JJ NISSEN BAKERY	RAO	5/16/07		A2	Mat.
	JO THIS SELT OF MELLI	10.00	5,20,0.			Haz.
419 GROVE ST	VALU GAS STATION	RAO	12/11/07		B1	Mat.
419 GROVE ST	VALU GAS STATION	RAO	8/2/07		B1	
			-,-,-			Haz.
18 SHERMAN ST	SAM-JAY REALTY TRUST	TIER 2	10/11/06			Mat.
1068 WEST BOYLSTON		RTN				
ST	GARDNER AUTOMOTIVE	CLOSED	11/25/09			Oil
		RTN				Haz.
185 PARK AVE	MOBIL STATION	CLOSED	1/2/08			Mat.
350 GREENWOOD ST	GETTY STATION	TIER 1C	1/18/08	Ш		
		RTN				Haz.
332-334 PLEASANT ST	FORMER GAS STATION	CLOSED	8/16/07			Mat.
184 MADISON ST	HESS STATION	RAO	3/19/07		A1	Oil
		RTN				
294 BELMONT ST	HI LO GAS STATION	CLOSED	1/25/08			
						Oil &
	FORMER PARKER &					Haz.
119 DEWEY ST	HARPER MFG CO	TIER 2	1/29/08	Ш		Mat.
	TRANSFORMER BENEATH					
MILLBROOK ST	RT. 290 OVERPASS	RAO	12/14/07		A2	
	CUTLER	RTN				Haz.
398-400 GROVE ST	REAL ESTATE MGMT	CLOSED	2/21/08			Mat.
138-142 GREEN ST	HOLT RESIDENCE	RAO	8/7/07		A2	Oil
366-382 SHREWSBURY						
ST	GALLO REALTY CO INC	RAO	2/22/07		A2	Oil
361 SOUTHWEST CUTOFF	UNITED RENTALS	RAO	4/23/07		A1	
570 MAIN ST	FEDERAL PLAZA GARAGE	RAO	3/4/08		B1	
270 MAIN ST	TEDETINE FENER GRITINGE	TOTO	3/4/00		- 51	Haz.
5 MADISON ST	FORMER BERWICK BLDG	TIER 2	3/13/09	п		Mat.
350 GREENWOOD ST	GETTY STATION	TIER 1C	3/14/08	11		Oil
330 GREENWOOD 31	MASS ELECTRIC	TIEN IC	3/14/00	-11		OII .
939 SOUTHBRIDGE ST	TRANSFORMER	RAO	5/23/07		A1	
287 GROVE ST	WRTA	TIER 2	3/17/08	IV	- 12	Oil
99 CRESCENT ST	CK SMITH & CO INC	RAO			A1	Oil
99 CKESCENT ST	CK SMITH & CO INC	KAU	6/11/07		A1	OII

						Haz.
29 WINFIELD ST	MASON WINFIELD LLC	DPS	4/15/08			Mat.
76 EAST WORCESTER ST	WORC DPW GARAGE	RAO	6/18/07		A1	
900 WEST BOYLSTON						
ST	NATIONAL GRID	RAO	6/21/07		A1	
	NATIONAL					Haz.
207 GREENWOOD ST	ENVELOPE CORP	DPS	6/14/11			Mat.
						Oil &
35-43 DEAN ST AND	WORCESTER POLYTECHNIC					Haz.
26-32 BOYNTON	INSTITUTE	RAO	8/15/08		A2	Mat.
418-440 CAMBRIDGE ST	ESTATE OF LEROY P SMITH	RAO	5/9/08		A2	Oil
150 BLACKSTONE	LIBERTY MA					Haz.
RIVER RD	PORTFOLIO FEE LLC	DPS	10/29/08	Ш		Mat.
254 FRANKLIN ST	CITY OF WORC UST REL	RAO	12/14/07		A2	
						Oil &
323 WEST BOYLSTON	WEST BOYLSTON ST					Haz.
ST	XTRA MART	RAO	6/1/12	п	A2	Mat.
99 STATFFORD ST	STAFFORD BFD LLC	RAO	8/29/07		A2	Oil
33 SIAIII OND SI	STATIONS SIS EEC	IVIO	0/23/07		n _E	Oil
	WEDSTED SOLIADE DI AZA					
68 STAFFORD ST	WEBSTER SQUARE PLAZA - SHAWS SUPER MARK	RAO	9/21/07		A2	Oil
08 STAFFORD ST	SHAWS SUPER WARK	RAU	8/21/07		AZ	
	24152 2202527		c /ar /aa			Haz.
508-510 PLEASANT ST	RAHEB PROPERTY	TIER1D	6/25/08			Mat.
	FORMER WORCESTER					
254 FRANKLIN ST	COLD STORAGE	RAO	12/14/07			Oil
75 QUINSIGAMOND	II NICCENI DAVEDV	240	6/27/07			0.1
AVE	JJ NISSEN BAKERY	RAO	6/27/07		B1	Oil
	JB HUNT TRANSPORT					
RT 290 EASTBOUND	ROADWAY RELEASE	RAO	8/23/07		A1	Oil
	FOLEY STADIUM FIELD					
305 CHANDLER ST	HOUSE	RAO	4/30/08		A2	Oil
113 COBURN AVE	LAKEVIEW SCHOOL	RAO	5/5/08		A2	Oil
18 MIDLAND ST	MIDLAND STREET SCHOOL	RAO	11/6/07		A2	Oil
	MILLBURY ST					
389 MILLBURY ST	HEAD START SCHOOL	RAO	11/16/07		A2	Oil
166 UNCATENA AVE	LEONE RESIDENCE	RAO	1/25/08		A2	Oil
						Oil &
						Haz.
1 CONCORD ST	GATEWAY PARK LLC	RAO	2/5/08		A2	Mat.
105 MADISON ST	WYMAN GORDON INC	RAO	9/24/07		A1	Oil

						Oil &
WASHINGTON SQUARE TRAFFIC CIR	MASS HIGHWAY DEPT	URAM	7/24/07			Haz. Mat.
299 HIGHLAND ST	DOHERTY HIGH SCHOOL	RAO	5/21/08		A2	Oil
233 1110112111231	DOMESTI MICH DE MOCE	10.00	3,22,00			Haz.
982 SOUTHBRIDGE ST	SUZAN P ATHANAS TRUST	DPS	8/1/08			Mat.
30 ROXBURY ST	BECKER COLLEGE	RAO	10/1/07		A2	Oil
24 CHATHAM ST	FANNING BUILDING WPS	RAO	6/12/08		A2	Oil
38 SUTTON LN			-,,			Haz.
LOTS 4-1 AND 4-2	FMR INDUSTRIAL BUILDING	TIER1D	8/14/08			Mat.
						Oil &
						Haz.
7 CLAPP ST	CLAPP STREET ASSOC	TIER 2	6/6/11	п		Mat.
29 ALBANY ST	HYDRAULIC OIL RELEASE	RAO	10/15/07		A1	
225 GRAFTON ST	THOMAS AUTO BODY	TIER 2	9/25/08	IV		Oil
616 CHANDLER ST	CUMBERLAND FARMS	RAO	11/26/07		B1	Oil
99 CRESCENT ST	C.K SMITH & CO.	RAO	7/28/08		B1	Oil
						Oil &
						Haz.
41 SUTTON LN LOT 4	FORMER MILL	TIER1D	10/17/08			Mat.
19 MEADOW LANE	RESIDENCE	RAO	12/14/07		A2	Oil
	UMASS MEMORIAL					
275-281 LIINCOLN ST	MEDICAL CENTER	RAO	8/22/11	IV	C1	Oil
	AAA MA TPK					Haz.
93 STAFFORD ST	WAREHOUSE CO	DPS	6/16/08			Mat.
74 CHILMARK ST	E. B. LUCE CORP.	RAO	10/27/08		A2	Oil
275 GREENWOOD ST	PROPERTY DEVELOPMENT	RAO	12/20/07		A1	Oil
	KELLEY SQUARE END OF					
122A S	RAMP RTE 290W 122AS	RAO	1/8/08		A1	
17 ETHAN ALLEN ST	RESIDENCE	TIER 2	11/19/08	Ш		Oil
						Haz.
1 CONCORD ST	GATEWAY PARK LLC	RAO	2/5/08			Mat.
	ABBY KELLEY FOSTER					
10 NEW BOND ST	CHARTER SCHOOL	RAO	2/16/10	Ш	A3	Oil
	FORECLOSED					
3 TYSON TER	RESIDENTIAL PROPERTY	RAO	11/15/11	Ш	A2	Oil
SHREWSBURY ST	27 - 33 SHREWSBURY ST	URAM	1/4/08			
1 COLLEGE ST	HOLY CROSS CARLIN HALL	RAO	2/29/08		A1	
73 CHANDLER ST	KEN JONES TIRE	RAO	1/16/09		A2	Oil
		RTN				
350 GREENWOOD ST	GETTY SERVICE STATION	CLOSED	11/13/08			Oil
99 CRESCENT SAINT	C K SMITH CO.	RAO	3/28/08		A1	Oil

3 HARVARD PL	RESIDENCE	TIER1D	2/16/09			
	RT 290 AT THE					
RTE 290 WESTBOUND	LINCOLN ST EXIT	RAO	3/21/08		A1	Oil
	REIDENTIAL					
50 LUDLOW ST	OIL RELEASE	TIER1D	2/24/09			Oil
86 SOUTHWEST CUTOFF	RTE 20 AT RTE 122	RAO	5/29/08		A1	Oil
25 SOUTHGATE ST	SWIP ABANDONED FOUNDRY BUILDING	RAO	3/19/10		A2	Oil & Haz. Mat.
						Oil & Haz.
83 CRESCENT ST	CK SMITH & CO	TIER 2	6/1/10	II		Mat.
17 SOUTHGATE PL	SWIP ABANDONED FOUNDRY BUILDING	RAO	3/19/10	П	A2	Oil
23 SOUTHWEST CUTOFF	VEHICLE ACCIDENT	RAO	5/2/08		A1	Oil
	BUSINESS-RESIDENTIAL		-,,,,,,			Oil & Haz.
667 MAIN ST	BUILDING	RAO	7/16/08		A2	Mat.
		RTN				
7 CLAPP ST	FORMER BULK STATION	CLOSED	6/6/11			
POLE 41 ARARAT ST	MASS ELECTRIC NATIONAL GRID	RAO	5/28/08		A1	
	FORECLOSED	1.0.0	-,,			
94 WIGWAM HILL RD	RESIDENCE	RAO	7/13/09	II	A1	Oil
40 SUTTON LN LOT 4A	FMR. HOPEVILLE POND	TIER1D	4/27/09			Haz. Mat.
41 SUTTON LN LOTS 5 AND 6	A.A BRUNELL ELECTROPLATING CORP.	TIER1D	5/1/09			Haz. Mat.
38 SUTTON LN LOTS 4-1 AND 4-2	FMR BRUNELL ELECTROPLATING	TIER1D	5/1/09			Haz. Mat.
34 ALBANY ST	RADIO OIL FACILITY	RAO	6/30/08		A2	Oil
67 WEST BOYLSTON ST	YANKEE	RAO	6/18/08		A1	Oil
542 SOUTHBRIDGE ST	NATIONAL GRID	RAO	6/24/08		A2	Haz. Mat.
342 300 111311302 31	NATIONAL GIND	ino	0/24/00		72	Oil &
15 COPPAGE DR	TRICAB INC	RAO	5/30/08		A2	Haz. Mat.
48 IDEAL RD	RESIDENTIAL	TIER 2	5/12/09	П		Oil
11 ELLIS DR	RESIDENTIAL PROP	RAO	7/31/08		A2	Oil
20 SUMMER ST	MASS ELECTRIC CO	RAO	8/12/08		A1	Oil

21 HOME ST	MASS ELECTRIC CO	RAO	7/16/08		A1	Oil
		RTN				Haz.
112 HARDING ST	GKN SINTER METALS	CLOSED	5/20/09			Mat.
83 CRESENT ST	CK SMITH	TIER 2	6/1/10			Oil
	KANSAS STREET AT					Haz.
2 KANSAS ST	SHERMAN STREET	URAM	9/30/08			Mat.
BELMONT ST	POLE NUMBER 4	RAO	8/8/08		A1	
						Haz.
29 BLUFF ST	FMR MUIRS SERVICES	TIER 2	6/25/09	П		Mat.
72 SHREWSBURY ST	NATIONAL GRID	RAO	8/27/08		A2	Oil
	PAD-MOUNTED					
490 LINCOLN ST	ELECTRICAL TRANSFORMER	RAO	6/15/09		A1	
						Haz.
1256 MAIN ST	BRITE CLEANERS	TIER1D	7/27/09			Mat.
92 ELM ST	VEHICLE ACCIDENT	RAO	9/19/08		A1	Oil
50 SKYLINE DR	ARMY NAT'L GUARD	RAO	10/7/08		A2	Oil
12 BEECHMONT ST	RESIDENTIAL	RAO	10/9/08		A2	Oil
		RTN				Haz.
28 SOUTHGATE ST	WBC REALTY CORP	CLOSED	3/5/10			Mat.
24 JOLMER RD	HYDRAULIC LINE	RAO	10/24/08		A2	
564 SOUTHWEST						
CUTOFF	PRICE CHOPPER	RAO	10/8/08		A1	
	79-87 PLEASANT STREET					
87 PLEASANT ST	REALTY TRUST	RAO	8/25/09		A2	Oil
10 SOUTH FLAGG ST	RESIDENCE	RAO	4/23/09		A2	Oil
	ABBY KELLEY FOSTER					Haz.
10 NEW BOND ST	CHARTER STREET	RAO	11/5/08		A1	Mat.
ENVELOPE ST	ROADWAY RELEASE	RAO	10/9/08		A1	
16 MINTHORNE ST	RESIDENCE	RAO	1/15/09		A2	Oil
100 MAYFIELD ST	BIG Y SUPERMARKET	RAO	11/17/08		A2	Oil
						Oil &
	SHELL					Haz.
48 MADISON ST	SERVICE STATION	RAO	1/4/10	п	A2	Mat.
47 INDIAN LAKE PKWY	RESIDENCE	RAO	6/4/10		B1	
14 WEST BOYLSTON ST	SHAWS SUPERMARKET	RAO	11/7/08		A1	
	SHELL		,.,-2			Haz.
340 GROVE ST	SERVICE STATION	RAO	10/7/09	п	A2	Mat.
150 BLACKSTONE	HUDSON RPM					
RIVER ROAD 6	DISTRIBUTORS	RAO	12/24/08		A1	Oil
653 MAIN ST	HADLEY APARTMENTS	RAO	6/30/11	П	A2	Oil
12 BEECHMONT ST	RESIDENTIAL	RAO	2/16/09		A2	Oil

5 GREENFIELD ST	RESIDENTIAL	TIER 2	4/23/10	Ш		Oil
167 PLEASANT ST	RESIDENTIAL 3 DECKER	TIER1D	11/13/09			Oil
670 WEST	QUINSIGAMOND					Haz.
BOYLSTON ST	COMM. COLLEGE	RAO	9/20/10		B1	Mat.
	NON-PCB POLE-MOUNTED		. //			
164 SHREWSBURY ST	ELEC TRANSFORMER	RAO	1/13/09		A1	
108 NEWTON AVE N	HEALY RESIDENCE	RAO	3/18/09		A2	Haz. Mat.
120 PROVIDENCE ST	SHINE MEMORIAL POOL	RAO	12/1/00		A1	Haz. Mat.
			12/1/09		WI	IVIdt.
323 WEST BOYLSTON ST	WEST BOYLSTON ST XTRA MART	RTN CLOSED	9/30/09	IV		Oil
BUTESTON ST	ATRA WART	CLUSED	9/30/09	IV		Oil
	PAD-MOUNTED					
118 CAMBRIDGE ST	ELECTRICAL TRANSFORMER	RAO	9/20/10	п	A2	Oil
80 BEACON ST	BEACON ST SUBSTA	RAO	11/29/10	ii.	A2	OII
555211551151	FMR COME PLAY		,,			
344 FRANKLIN ST	PRODUCTS	TIER 2	2/8/10	IV		Oil
	INTERMODAL		7,7,00			
53 WISER AVE	TRANSPORT	RAO	3/25/09		A1	
661 MAIN ST	FMR CARAVAN BLDG	RAO	12/21/10		A2	Oil
150 BLACKSTONE						
RIVER RD	TANK FARM	RAO	3/26/12	Ш	A2	Oil
804 AND 852 SOUTHBRIDGE ST	NO LOCATION AID	RAO	5/12/09		B1	Haz. Mat.
151 WEST	LOADING DOCK AT	240	F /0 /00	-		
BOYLSTON DR	NORTH SIDE OF BUILDING	RAO	5/8/09		A2	
346 FRANKLIN ST	PRODUCTS	RTN CLOSED	2/8/10			Oil
116 SAINT	RESIDENTIAL					
NICHOLAS AVE	FUEL OIL RELEASE	RAO	9/16/09		A1	Oil
661 MAIN ST	FMR CARAVAN BLDG	RAO	12/21/10			Oil
661 MAIN ST	FMR CARAVAN BLDG	RAO	12/21/10			Oil
						Oil &
	O S WALKER		a tea tra			Haz.
10-20 ROCKDALE ST	COMPANY INC	DPS	3/30/10			Mat.
10-20 ROCKDALE ST	WORCESTER	RAO	3/30/10		B1	Haz. Mat.
60 QUINSIGAMOND AVE	QUINSIGAMOND AVE STATION	RAO	6/10/09		A1	

38 COOLIDGE RD	UST RELEASE	RAO	7/14/09	П	A2	Oil
255 HIGHLAND ST	VEHICLE ACCIDENT	RAO	7/8/09		A1	Oil
352 BELMONT ST	NO LOCATION AID	RAO	6/28/12	Ш	B2	Oil
	BEHIND DOLLAR TREE					
344 GREENWOOD ST	STORE 2522	RAO	7/23/09		A1	
25 TOBIAS						
BOLAND WAY	WORCESTER CROSSING	RAO	7/31/09		A2	Oil
31 PARKTON ST	RESIDENCE	RAO	7/18/11	Ш	A2	Oil
271 FRANKLIN ST	CSX	RAO	6/30/09		A1	Oil
						Haz.
344 FRANKLIN ST	FMR COME PLAY PRODUCTS	DPS	1/26/10			Mat.
	THORNDYKE					
30 THORNDYKE RD	ROAD SCHOOL	RAO	1/7/10	П	A1	Oil
SOUTHWEST CUTOFF	ROADWAY RELEASE	RAO	10/8/09		A1	Oil
METCALF ST POLE 8	PCB MODF RELEASE	RAO	10/12/09		A2	
	LINCOLN W STODDARD					Haz.
25 NORTH LAKE AVE	US ARMY RESERVE CTR	RAO	1/8/10		B1	Mat.
		RTN				Haz.
160 FREMONT ST	CONDOMINIUM UNITS	CLOSED	1/11/10			Mat.
	PIP VACANT					
17 ETHAN ALLEN ST	RESIDENTIAL BLDG	TIER 2	9/28/10	П		Oil
10 WEBSTER PL	WEBSTER PLACE	TIER1D	9/30/10			Oil
I 190N AT MM 0 9	DIESEL FUEL RELEASE	RAO	1/20/10		A1	Oil
6 HOME ST	RENTAL PROPERTY	RAO	1/4/10		A2	Oil
						Oil &
						Haz.
10 PERROT ST	HOELSCH RESIDENCE	RAO	2/11/10	П	A2	Mat.
						Oil &
	RESIDENTIAL					Haz.
43 MIDLAND ST	PROPERTY	RAO	3/8/10		A2	Mat.
25 SOUTHGATE ST	SWIP CITY OF WORC	RAO	8/1/11	Ш	A2	Oil
382 SOUTHBRIDGE ST	TRACK VANDALISM	RAO	3/26/10		B1	Oil
	WEBSTER SQUARE VETERAN					Haz.
1260 MAIN ST	MEMORIAL POOL	RAO	5/20/10		A2	Mat.
	AGGREGATE					
207 GRAFTON ST	INDUSTRIES	RAO	2/15/10		A2	Oil
						Haz.
14 PUTNAM LN	PETERSON OIL SERVICE	DPS	6/17/10			Mat.
	WEBSTER ST					Haz.
59 WEBSTER ST	SUBSTATION	RAO	5/27/11	Ш	A2	Mat.

	NEAR FRANKENSTEINS					
1 CONGDON ST	RECYCLING	TIER1D	1/27/11			Oil
SOUTHGATE ST	POLE 3-3	RAO	4/1/10		A2	
1040 SOUTHBRIDGE ST	FORMER ANDERSON PRODUCTS FACILITY	RAO	7/7/10		B2	Haz. Mat.
45 CLARENDON ST	CROW HILL	TIER 2	2/4/11	П		Haz. Mat.
245 VERNON ST	VERNON HILL SUBSTATION	RAO	3/13/12	П	A2	Haz. Mat.
323 WEST BOYLSTON ST	WEST BOYLSTON STREET EXTRAMART	RTN CLOSED	5/20/10			Haz. Mat.
805 WEST BOYLSTON ST	HENDERSON PROPERTY	RAO	7/28/10		B2	Haz. Mat.
88 JUNE ST	ESTATE OF DOROTHY PACHANIAN	RAO	6/4/10		A2	Haz. Mat.
1 MAYWOOD PL	CLARK UNIVERSITY	RAO	4/29/11		A2	Oil
22 WAVERLY ST	ST CASIMIRS RECTORY	RAO	9/7/10		A2	Oil
50 CANTON ST	CROMPTON PARK POOL	RAO	9/17/10		A2	
47 INDIAN LAKE PKWY	RESIDENCE	TIER 2	6/17/11	п		Oil & Haz. Mat.
7 BRANDON ROAD	RESIDENT	RAO	11/30/10		A2	Oil
6 OLD COLONY ROAD	RESIDENTIAL BLDG	RAO	7/29/10		A2	Oil
WAUCANTUCK ROAD	MODF RELEASE	RAO	8/30/10		A2	
144 CANTERBURY ST	MODF PCB RELEASE	RAO	8/31/10		A2	
30 GLENNIE STREET	FORMER BENJAMIN ELECTRIC SUPPLY COMPANY	RAO	8/19/10		B1	Haz. Mat.
146 HIGHLAND ST	PAD MOUNTED TRANSFORMER	RAO	10/11/10		A1	
150 BLACKSTONE RIVER ROAD	TRACTOR TRAILER ACCIDENT	RAO	10/18/10		A2	Oil
345 SHREWSBURY ST	UNIVERSAL METAL	RAO	9/30/10		A2	Oil
640 MAIN STREET	ROADWAY RELEASE	RAO	10/27/10		A1	Oil
	CANAL LOFTS LP					
39 WATER STREET	PROPERTY	RAO	11/22/10		A2	Oil
62 SUFFOLK ST	GRAFTON STREET ELEMENTARY SCHOOL	TIER1D	9/29/11			Haz. Mat.

	RESIDENTIAL					
10 FAIRBANKS STREET	APARTMENT BLDG	RAO	10/7/11		A1	Oil
10 TAINDAINS STREET	HYDRAULIC LINE	IIIO	10///11		7.1	Oil
HEATH ST	RUPTURE	RAO	10/22/10		A1	Oil
	NOFTONE	NAU	10/22/10		WI	Oil
150 BLACKSTONE RIVER ROAD	LIBERTY PROPERY	TIER 1C	10/24/11	п		Oil
	LIBERTT PROPERT	HER IC	10/24/11	- "		OII
331 SOUTHWEST CUTOFF	WHEELABRATOR	RAO	12/23/10		A1	
COTOFF	WHEELABRATOR	INAU	12/23/10		WT.	
100 GOLD STAR BLVD	HARR TOYOTA	RAO	2/21/11		A2	Haz. Mat.
100 GOLD STAN BLVD	HARR TOTOTA	RAU	2/21/11		MZ	
						Oil &
779 MAIN STREET	FMR WORCESTER CAB	RAO	6/14/11		A2	Haz. Mat.
779 MAIN STREET		KAU	6/14/11		AZ	
TAINTED CTREET	INTERSECTION OF	240	11/2/10			Haz.
TAINTER STREET	TAINTER AND RIPLEY ST.	RAO	11/3/10		B1	Mat.
2 FLAGG STREET	RESIDENCE	RAO	7/7/11		A2	Oil
	ACROSS FROM					
305 CHANDLER ST	FOLEY STADIUM	RAO	11/26/10		A1	Oil
369 CAMBRIDGE ST	POLE 8	RAO	2/3/11		A2	
	SISTERS OF					
11 BEECHMONT ST.	THE ASSUMPTION	RAO	3/18/11		A2	Oil
184 MADISON	HESS STATION (21511)	RAO	2/22/11		A1	Oil
RTE 290 EAST	VEHICLE ACCIDENT	RAO	3/14/11		A1	Oil
	FORMER IONIC AVE					
2 IONIC AVE	BOYS CLUB	RAO	5/27/11		A2	Oil
484 MAIN ST	DENHOLM BUILDING	RAO	10/24/11		A1	Oil
331 SOUTHWEST	WHEELABRATOR					
CUTOFF	FACILITY	RAO	5/13/11		A1	
	WEBSTER FIVE					Haz.
266 CHANDLER STREET	PROPERTY	RAO	3/30/12		A3	Mat.
						Oil &
	PROPOSED					Haz.
0 FOSTER STREET	WRTA DEVELOPMENT	RAO	4/20/12		A2	Mat.
567 FRANKLIN ST	FORMER JUNK YARD	RAO	7/1/11		A1	Oil
	PAD-MOUNTED					
494 LINCOLN STREET	ELECTRICAL TRANSFORMER	RAO	8/6/11		A2	Oil
40 COUNTRY	PAD-MOUNTED					
CLUB BLVD	ELECTRICAL TRANSFORMER	RAO	7/19/11		A2	Oil
	SOUTH WORCESTER					Haz.
26 SOUTHGATE PLACE	INDUSTRIAL PARK	RAO	9/16/11		B1	Mat.

	FORMER HOLDEN					
70-80 FREMONT ST	PLASTICS PROPERTY	RAO	7/8/11		B2	
						Haz.
8-10 NASHUA STREET	COMMERCIAL	RAO	7/11/11		A2	Mat.
	WORCESTER STATE					
486 CHANDLER ST.	COLLEGE	TIER 2	5/18/12	п		Oil
	HYDRAULIC OIL					
95 HIGGINS STREET	RELEASE	RAO	6/17/11		A1	Oil
265 GRAFTON STREET	HOWLETT LUMBER	RAO	6/8/11		B1	Oil
99 JUNE STREET	RESIDENCE	TIER 2	10/24/12	П		Oil
	BELMONT STREET					
398 BELMONT STREET	CATCH BASIN	URAM	6/14/11			Oil
						Oil &
						Haz.
30 PARK AVENUE	30 PARK AVENUE	RAO	11/16/11		A2	Mat.
	BEAVER BROOK					Haz.
9 MANN STREET	PARK POOL	RAO	7/18/12		A2	Mat.
	UNIVERSITY					Haz.
955 MAIN STREET	PARK POOL	RAO	7/18/12		A2	Mat.
	TRANSFORMER					
49 AUSTIN ST.	RELEASE	RAO	10/6/11		A1	
133 WATER STREET	MODF RELEASE	RAO	10/19/11		A1	
	HOLY CROSS COLLEGE					
1 COLLEGE ST	CARLIN HALL	RAO	10/19/11		A1	Oil
	MAIN/BELMONT/					Haz.
TEN LINCOLN SQUARE	SCHOOL STS	TIER 2	9/11/12	Ш		Mat.
100 FRONT STREET	CITYSQUARE HISTORIC FILL	RAO	10/8/11		A2	Oil
						Haz.
324 CLARK STREET	324 CLARK STREET	RAO	7/2/12		A3	Mat.
						Haz.
55 LAKE AVE NORTH	UMASS MED SCHOOL	RAO	11/21/11		B1	Mat.
271 FRANKLIN ST	CSX PROPERTY	RAO	10/5/12		A2	Oil
400 SOUTHWEST	IMPACTED	DAG	11/20/11			
CUTOFF	PROPERTY	RAO	11/29/11		A1	0:1
609 PARK AVE	BP STATION	TIER 2	10/12/12	- 11		Oil
95 GRAND STREET	FORMER MILL PROP	TIER1D	10/15/12		P.1	Oil
29 NEWBURY ST	ABANDONED PROP	RAO	7/18/12		B1	Oil
12 SCHUSSLER RD.	RESIDENCE	TIER 2	10/16/12	- 11		Oil
OF CRAND STREET	FORMER	TIERAR	10/22/12			Haz.
95 GRAND STREET	CROMPTON & KNOWLES	TIER1D	10/22/12			Mat.

	NATIONAL GRID					
939 SOUTHBRIDGE ST	FACILITY	TIER 2	10/22/12	Ш		Oil
	BROWNFIELDS					
er	REDEVELOPMENT					
65 ARMORY ST	PROJECT	UC	11/15/11			Oil
271 FRANKLIN ST	CSX INTERMODAL YARD	RAO	1/24/12		A1	Oil
533 LINCOLN ST	LOWES STORE 1206	RAO	2/13/12		A1	Oil
RTE 146 @ RTE 20	TT UNIT SPILL	RAO	2/23/12		A2	Oil
600 PARK AVE	PLYWOOD PLUS	RAO	1/27/12		A1	Oil
26 HARVARD STREET	LUTHERAN	240	2/20/12			0.1
26 HARVARD STREET	HEALTH CARE	RAO	3/30/12		A2	Oil
CHAPIN ST	POLE #2	RAO	5/18/12		A2	
274 524444444	FRANKLIN STREET					Haz.
271 FRANKLIN ST	RAIL YARD	RAO	10/19/12		B1	Mat.
72 200 1244 147	PRICE CHOPPER	240	2/0/42			
72 PULLMAN ST	SUPERMARKET	RAO	3/8/12		A1	Oil
90 GROVE STREET	PROPERTY	RAO	9/17/12		A2	Oil
						Oil &
221 SOUTHWEST	FORMER	240	0/4/42			Haz.
CUTOFF	MABEY BRIDGE & SHORE	RAO	9/4/12		A2	Mat.
						Oil &
20 5505041 570557	FORMER T&G		2/27/12			Haz.
30 FEDERAL STREET	PARKING LOT	UC	3/27/12		4.2	Mat.
263 GRAFTON	CUMBERLAND FARMS	RAO	8/2/12		A2	Oil
RTE 190 @ SHORE RD	ROADWAY SPILL	RAO	6/8/12		A1	Oil
110 GODDARD			7/20/42			Haz.
MEMORIAL DR	MANN CHEMICAL	RAO	7/20/12		A1	Mat.
160 GOLD STAR BLVD	WRIGHT LINE FACILITY	RAO	6/8/12		A1	Oil
						Oil &
45 FRANK ST AKA	BLOOMINGDALE		E /47/43			Haz.
29 WIGWAM AVE	SUBSTATION	UC	5/17/12			Mat.
344 FRANKLIN ST	PRODUCTS	RTN CLOSED	7/25/12			Haz. Mat.
	HYDRAULIC LINE					
200 AIRPORT DR	ON MOWER	RAO	7/12/12		A2	Oil
271 FRANKLIN ST	CSX RAIL YARD	RAO	7/26/12		A1	Oil
67 BELMONT STREET	UMASS MEM CLINIC	RAO	8/27/12		A1	Oil
61 MYRTLE STREET	ROADWAY RELEASE	RAO	9/10/12		A1	Oil
						Oil &
						Haz.
78 ALVARADO AVENUE	RESIDENTIAL	UC	7/19/12			Mat.

	CORNER OF BELMONT				
BELMONT STREET	AND PLANTATION ST.	URAM	7/31/12		
	TRANSFORMER				
PLAIN STREET	RELEASE	RAO	9/26/12	A	1
185 PARK AVE	MOBIL STATION 1487	UC	8/20/12		Oil
					Oil &
	FORMER MORGAN				Haz.
15 BELMONT ST	CONSTRUCTION CO.	UC	9/14/12		Mat.
17 ROSEMONT ST	ROADWAY RELEASE	UC	10/22/12		Oil
GREENWOOD ST AND					
WISER AVE	MODF RELEASE	UC	10/29/12		

Appendix B: Focus Groups

Focus Group – 06/06/12 Head Start Policy Group Discussion

	Social and economic concerns	Health and Environmental Concerns
2. Community Concerns	Crime Gang Activities (street tagging on fences, houses) Violence (youth violence, sex assault, physical abuse) Drugs Prostitution Teen pregnancy Fear of the community Lack of initiatives to take action (blind eye) Lack of police response: officers need to patrol other areas Lack of employment Lack of strong relationships/communication among community and police department Secondary road intersections	 Food Security Abandoned buildings Potholes Lack of public parking around school areas. Lack of receptacle: accumulation of litter and trashin open areas. Lack of consciousness: community awareness Being low income doesn't meanto be environmentally irresponsible: need to learn to be clean, responsible and respect common areas. Rundown sidewalks Educate the children and they outh: teaching by example provides a role model for others. Pests (rodents, cockroaches) Lack of landlords participation and involvement Snow removal: be aware of the methods of pilling up snow. Need to be more efficient to avoid accidents Air, water and soil pollution

3. Community Vulnerabilities	4. Identify Community Assets	5. Identify Concerns for Immediate Actions
Unemployment	Community Gardens	Abandonedbuildings: foreclosure
 Lack of health care resources 	Faith based organizations	Exposure to toxics at home and at the workplace
Absence of participation from state	Peer to peer education	Implement community service to target other
entities	Head start: brings service to families	areas.
 Drug dealers of the streets, public 	52 neighborhood watch	Inform minority groups (working poor, refugees)
parks	Walking police patrolling different areas	about supporting organizations
More dialog among community	Organizations oriented to educate people that come	Find a solution to deal with language barrier
members	into the country: build trust	problems
Lack of affordable housing: close	Get more funding for non-profit organizations	Trash and litter: create partnerships with
attention to minimum wages	Inform people about health care opportunities (free	Worcester public schools to have more
Lack of community collaboration	clinics, UMass, Work Force Development Center)	receptacles.
 Lack of appreciating diversity 	Promote community empowement initiatives	Call for action to police departments to clear up
Lack of support to new immigrants	toward sustainability (Worcester Greener Healthy	parks and create a safety environment around the
	Homes Coalition)	neighborhood.

Focus Group- 10/04/12 East Africa Community Outreach

	Social and economic concerns	Health and Environmental Concerns
2. Community Concerns	Crime Gang Activities (street tagging on fences, houses, vandalism) Violence (youth violence, sex assault, physical abuse) Drugs Prostitution Teen pregnancy Fear of the community — (Stereotyping, harassments, discrimination) Lack of initiatives to take action (blind eye, turned heads) Lack of police response: officers need to patrol other areas (especially towards youth) Lack of strong relationships/communication among community and police department Secondary road intersections Transmitted disease	 Food Security Abandonedbuildings Potholes Lack of public parking aroundschool areas. Lack of receptacle: accumulation of litter and trashin open areas. Lack of consciousness: community awareness Being low income doesn't meanto be environmentally irresponsible: need to learn to be clean, responsible and respect common areas. Rundown sidewalks Educate the children and they outh: teaching by example provides a role model for others. Pests (rodents, cockroaches) Lack of landlords participation and involvement Snowremoval: be aware of the methods of piling up snow. Need to be more efficient to avoid accidents Air, water and soil pollution

Secondary road intersection		
Transmitted disease		
	•	
3. Community Vulnerabilities	4. Identify Community Assets	5. Identify Concerns for Immediate Actions
Unemployment	Community Gardens	Abandonedbuildings: foreclosure
 Lack of easy access to health care 	Faith based organizations	Exposure to toxics at home and at the workplace
resources (language)	Peer to peer education	Implement community service to target other areas.
Absence of participation from state entities	Head start: brings service to families 52 neighborhood watch	Inform minority groups (working poor, refugees) about supporting organizations
Drug dealers of the streets, public parks	Walking police patrolling different areas Organizations oriented to educate people that	Allocation of programs to find a solution to deal with language barrier problems
More dialog among community members	come into the country: build trust Get more funding for non-profit organizations	Trash and litter: create partnerships with Worcester public schools to have more receptacles for
Lack of affordable housing: close	Promote community empowerment initiatives	recycling and reduction
attention to minimum wages	toward sustainability (Worcester Greener Healthy	Call for action to police departments to clear up
Lack of community collaboration	Homes Coalition)	parks and create a safety environment around the
Lack of appreciating diversity	Welfare office	neighborhood youth and residents.
Lack of support to new immigran	uts	• *
RMV process (language barriers and faulty process)	I	
•		

Focus Group- 10/15/12 Oak Hill CDC Youth Group

Health and Environmental Concerns Social and economic concerns • Crime Food Security Abandonedbuildings Gang Activities (street tagging on fences, houses, drug dealings, bullying.) Potholes Violence (youth violence, sex assault, physical Lack of public parking around school areas. abuse) Lack of receptacle: accumulation of litter and trashin open areas. o Drugs · Lack of consciousness: community awareness • Prostitution . Being low income doesn't mean to be environmentally irresponsible: need to Teen pregnancy leam to be clean, responsible and respect common areas. · Fear of the community · Rundown sidewalks • Lack of initiatives to take action (blind eye) · Educate the children and the youth: teaching by example provides a role · Lack of police response: officers need to patrol other model for others. areas and faster response. • Pests (rodents, cockroaches) Lack of employment for youth. · Lack of landlords participation and involvement · Lack of strong relationships/communication among Snowremoval: be aware of the methods of piling up snow. Need to be more community and police department efficient to avoid accidents • Secondary road intersections · Air, water and soil pollution Stereotyping · Lack of outdoor play grounds, basketball court etc. Sexually Transmitted disease · Lack of Street Lighting · Dog and Cats feces

3. Community Vulnerabilities	4. Identify Community Assets	5. Identify Concerns for Immediate Actions
Unemployment	Community Gardens	Abandonedbuildings: foreclosure
Lack of health care resources	Faith based organizations	Exposure to toxics at home and at the workplace
 Absence of participation from state 	Library	Implement community service to target other
entities	Peer to peer education	areas.
Drug dealers of the streets, public	Head start: brings service to families	Inform minority groups (working poor, refugees)
parks	52 neighborhood watch	about supporting organizations
More dialog among community	Organizations oriented to educate people that	Find a solution to deal with language barrier
members	come into the country: build trust	problems
Lack of affordable housing: close	Inform people about health care opportunities	Trash and litter: create partnerships with
attention to minimum wages	(free clinics, UMass, Work Force Development	Worcester public schools to have more
Lack of Afterschool programs	Center)	receptacles.
 Lack of support from teachers (ex. 	Promote community empowement initiatives	Call for action to police departments to clear up
Big Classroom size)	toward sustainability (Worcester Greener Healthy	parks and create a safety environment around the
 Lack of youth prevention programs 	Homes Coalition)	neighborhood.
(Sexual, pregnancy, drugs etc.)		
Lack of community collaboration		
 Lack of appreciating diversity 		
 Lack of support to new immigrants 		

Focus Group- 10/18/12 You Inc. Spanish Group

	Social and economic concerns	Health and Environmental Concerns
2. Community Concerns	Crime Gang Activities (street tagging on fences, houses, vandalism) Violence (youth violence, sex assault, physical abuse) Drugs Home and Vehicle Break ins Robberies Prostitution. Fear of the community — (Stereotyping, harassments, discrimination) Lack of initiatives to take action (blind eye, turned heads) Lack of police response: officers need to patrol other areas (Seniors) Lack of employment Lack of strong relationships/communication among community, police department and residents. Secondary road intersections Transmitted disease Culture issues. Lack of open spaces (parks, rec areas,) Underage drinking.	Food Security Abandoned buildings Potholes Lead Lack of receptacle: accumulation of litter and trashin open areas. Lack of consciousness: community a wareness Being low income doesn't meanto be environmentally irresponsible: need to learn to be clean, responsible and respect common areas. Rundown sidewalks Lack of resources for home owners. (not well advertised for programs available. Educate the children and the youth: teaching by example provides a role model for others. Pests (rodents, cockroaches) Lack of landlords participation and involvement Snowremoval: be aware of the methods of piling up snow. Need to be more efficient to avoid accidents Air, water and soil pollution Lack of trash receptacles Flood Zone (Black Stone River zone) 1. mold 2. Diseases E.E.E. 3. inhabitable space Animals (abandoned cats and dogs) Liquor stores/clubs

3. Community Vulnerabilities	4. Identify Community Assets	5. Identify Concerns for Immediate Actions
Unemployment Lack of public parking around school areas Lack of easy access to health care resources (language) Absence of participation from state entities Drug dealers of the streets, public parks More dialog among community members Lack of affordable housing: close attentionto minimum wages Lack of community collaboration Lack of support to new immigrants Lack of equality Transportation	Community Gardens Faith based organizations Peer to peer education Head start: brings service to families 20 neighborhood watch Walking police patrolling different areas Organizations oriented to educate people that come into the country: build trust Get more funding for non-profit organizations Promote community empowement initiatives toward sustainability (Worcester Greener Healthy Homes Coalition) Welfare office	Abandoned buildings: foreclosure Exposure to toxics at home and at the workplace Implement community service to target other areas. Inform minority groups (working poor, refugees) about supporting organizations Allocation of programs to find a solution to deal with language barrier problems Trash and litter: create partnerships with Worcester public schools to have more receptacles for recycling and reduction Call for action to police departments to clear up parks and create a safety environment around the neighborhood youth and residents. Better local and state programs a dvertisements.

Appendix C: Focus Group Comparisons

Appendix C. P.	Youth Focus Group	Adult Focus Group	Senior Focus Gro
Social and	• Crime	• Crime	• Crime
economic	 Gang Activities (street 	Gang Activities	o Gang Act
concerns	tagging on fences, houses)	(street tagging on	(street tag
	Violence (youth violence, sex	fences, houses,	on fences
	assault, physical abuse)	vandalism)	houses, d
	o Drugs	Violence (youth	dealings
	 Home and Vehicle Break ins 	violence, sex	Violence
	 Robberies 	assault, physical	from cars
	 Prostitution 	abuse)	assault)
	Teen pregnancy	Orugs	o Drugs
	 Fear of the community 	 Prostitution 	 Fear of the
	 Lack of initiatives to take action 	Teen pregnancy	community
	(blind eye)	• Fear of the community –	 Lack of initia
	• Lack of police response: officers	(Stereotyping,	take action (b
	need to patrol other areas and	harassments,	eye)
	faster response	discrimination)	• Lack of emplo
	Lack of employment for youth	 Lack of initiatives to 	Lack of resource
	 Lack of strong relationships/ 	take action (blind eye,	the homeless to
	communication among	turned heads)	them gain skill
	community and police department	• Lack of police response:	 Prostitution
	Secondary road intersections	officers need to patrol	Difference bety
	Stereotyping	other areas (especially	higher income
	Sexually Transmitted disease	towards youth)	lower income
	Culture issues.	• Lack of employment (for	communities
	• Lack of open spaces (parks, rec	both adults and youth)	Homes are brol
	areas,)	• Lack of strong	into
	Underage drinking.	relationships/	
		communication among	
		community and police	
		department	
		Secondary road	
		intersections	
		Transmitted disease	

Health & Environmental Concerns

- Food Security
- Abandoned buildings
- Potholes
- lead
- Lack of public parking around school areas.
- Lack of receptacle: accumulation of litter and trash in open areas.
- Lack of consciousness: community awareness
- Being low income doesn't mean to be environmentally irresponsible: need to learn to be clean, responsible and respect common areas.
- Lack of resources for home owners. (not well advertised for programs available.
- Rundown sidewalks
- Educate the children and the youth: teaching by example provides a role model for others.
- Pests (rodents, cockroaches)
- Lack of landlords participation and involvement
- Snow removal: be aware of the methods of piling up snow. Need to be more efficient to avoid accidents
- Air, water and soil pollution
- Lack of outdoor playgrounds, basketball court etc.
- Lack of Street Lighting
- Dog and Cats feces
- Flood Zone (BlackStone River zone)
 - 1. mold
 - 2. Diseases E.E.E.
 - 3. inhabitable space
- Animals (abandoned cats and dogs)
- Liquor stores/clubs

- Food Security
- Abandoned buildings
- Potholes
- Lack of public parking around school areas.
- Lack of receptacle: accumulation of litter and trash in open areas.
- Lack of consciousness: community awareness
- Being low income doesn't mean to be environmentally irresponsible: need to learn to be clean, responsible and respect common areas.
- Rundown sidewalks
- Educate the children and the youth: teaching by example provides a role model for others.
- Pests (rodents, cockroaches)
- Lack of landlords participation and involvement
- Snow removal: be aware of the methods of piling up snow. Need to be more efficient to avoid accidents
- Air, water and soil pollution

- Cigarette Srr second hand & cigarette beverywhere
- Abandoned buildings
- Lack of rece accumulation litter and tras open areas.
- Being low in doesn't mean environment irresponsible to learn to be responsible a respect commareas
- Rundown sidewalks
- Snow remov aware of the methods of r up snow.
 Sidewalks ar never shovel citizens need walk in stree
- Lack of Stree Lighting
- Dog and Cat
- Lack of consciousnes community awareness
- Lack of sprir summer clea
- Lack of resou and awareness the ill
- Buildings are for drugs and homeless peo

			T
Community Vulnerabilities	 Unemployment Lack of health care resources Lack of easy access to health care resources (language) Absence of participation from state entities Drug dealers of the streets, public parks More dialog among community members Lack of affordable housing: close attention to minimum wages Lack of community collaboration Lack of appreciating diversity Lack of support to new immigrants Lack of Afterschool programs Lack of support from teachers (ex. Big Classroom size) Lack of youth prevention programs (Sexual, pregnancy, drugs etc.) Lack of equality Transportation Senior center. 	 Unemployment Lack of easy access to health care resources (language) Absence of participation from state entities Drug dealers of the streets, public parks More dialog among community members Lack of affordable housing: close attention to minimum wages Lack of community collaboration Lack of appreciating diversity Lack of support to new immigrants RMV process (language barriers and faulty process) 	 Unemploymer Lack of health resources Absence of participation fi state entities Lack of Afters programs Lack of prograthe elderly Lack of support immigrants

Concerns for			
Immediate Action			

- Abandoned buildings: foreclosure
- Exposure to toxics at home and at the workplace
- Implement community service to target other areas.
- Inform minority groups (working poor, refugees) about supporting organizations
- Find a solution to deal with language barrier problems
- Trash and litter: create partnerships with Worcester public schools to have more receptacles.
- Call for action to police departments to clear up parks and create a safety environment around the neighborhood.
- Better local and state programs advertisements.

- Abandoned buildings: foreclosure
- Exposure to toxics at home and at the workplace
- Implement community service to target other areas.
- Inform minority groups (working poor, refugees) about supporting organizations
- Allocation of programs to find a solution to deal with language barrier problems
- Trash and litter: create partnerships with Worcester public schools to have more receptacles for recycling and reduction
- Call for action to police departments to clear up parks and create a safety environment around the neighborhood youth and residents.

- Abandoned buildings: foreclosure
- Implement community se

to target other

- Inform minori groups (worki poor, refugees supporting organizations
- Snow Remova Resources- Ne more effective to remove sno sidewalks
- Trash and litter program to bett neighborhoods

Appendix D: Focus Group Questions Community Group Discussions – Questions

Community Concerns (indoor and outdoor)

- 1. What are the environmental issues of greater interest or immediate concern in your community?
- 2. Are there any previous records of these types of issues?
- 3. Identify and discuss social, economic or health problems that affect your community.
- 4. What are the main sources or exposure routes of pollutants?
- 5. Who are the main contributors to these sources of pollution?
- 6. What are the effects on the community and its natural environment?
- 7. Are there any other social and economic issues that are of concern to your community?

Community Vulnerabilities

- 8. What groups living in the area are more prone to be affected by these issues?
- 9. Based on your experience, when preexisting health conditions were present, did you have access to health care?
- 10. What areas and or locations are the most vulnerable to pollution? How close do you live to these areas or locations?

Identify Community Assets

- 11. What do you know about initiatives to reduce these issues?
- 12. What are the existing strengths of the community?
- 13. Do you know of any organizations or movements that you could form partnerships with to build on those strengths?

Identify concerns for immediate Action

- 14. Based on the previously identified issues/concerns, which ones do you believe need immediate action? What other issues/ concerns do you think should be addressed?
- 15. Do you know of current or previous experiences or actions to reduce pollution activities?

Appendix E: Environmental Maps

Environmental Hazards Mapped in Piedmont, Main South, Belmont Hill, Oak Hill and Quinsigamond Village (Bowen, Hodge, Ilacqua, McDonough, 2012)



Appendix F: Worcester City Council Panhandling Ordinance

findings:

- (1) The City of Worcester has a duty to protect the rights of all people to exercise their First Amendment rights safely. The City of Worcester has a compelling governmental interest in imposing certain reasonable time, place and manner regulations whenever potential First Amendment activities such as begging, solicitation and panhandling occur on streets, highways, sidewalks, walkways, plazas, and other public venues within the City;
- (2) This ordinance is not intended to limit any persons from exercising their constitutional right to solicit funds, picket, protest or engage in constitutionally protected activities. The provisions of this division are expressly established to most narrowly tailor any such restrictions to protect the First Amendment rights of all people within the City as well as the rights of non-participating people and their property, and to ensure the rights and safety of all people and/or property to the extent possible;
- (3) Persons approached by individuals asking for money, objects or other things of any value are particularly vulnerable to real, apparent or perceived coercion when such request is accompanied by or immediately followed or preceded with aggressive behavior such as:
 - (A) continuing to beg or solicit from a person after the person has given a negative response to such solicitation;
 - (B) touching another person or their property in the course of begging or soliciting without that person's consent;
 - (C) blocking or interfering with the safe or free passage of a pedestrian or vehicle by any means;
 - (D) using violent or threatening gestures which are likely to provoke an immediate violent reaction from the person who is the subject of the solicitation or request for money;
 - (E) closely following behind, ahead or alongside a person who has been solicited or asked for money after that person has given a negative response to such solicitation;
 - (F) using profane, threatening, or abusive language, either during the solicitation or begging or following a refusal;
 - (G) begging or soliciting money from anyone who is waiting in line for tickets, entering a public building or riding on public transportation;
 - (H) begging or soliciting in a manner with conduct, words or gestures intended or likely to cause a reasonable person to fear imminent bodily harm, danger or damage to or loss of property or otherwise to be intimidated into giving money or any other thing of value; or
 - (I) begging or soliciting in a group of two or more persons in an intimidating fashion.

- (4) The City desires to respect a person's potential right to solicit, beg or panhandle while simultaneously protecting another's right to not be unduly coerced.
- (5) The City further finds that aggressive soliciting, begging or panhandling of persons within 20 feet of any outdoor seating area of any cafe, restaurant or other business, bank, automated teller machine, automated teller machine facility, check cashing business, mass transportation facility, mass transportation stop, or pay telephone also subjects people being solicited to improper and undue influence and/or fear and should not be allowed.
- (6) Persons approaching other individuals in an aggressive manner asking for money, objects or other things of any value after dark in public places inspire alarm and fear, which coupled with the inherent difficulty of establishing identity should not be allowed.

(b) Purpose and Intent.

The public purpose of this ordinance is to protect the rights of all peoples to exercise their First Amendment rights as well as the people and/or property of those who chose to be non-participating.

(c) Definitions.

As used in this section, the following words and terms shall have the meanings indicated. The meaning of all other terms and words not specifically defined shall be their generally accepted definition:

"Beg," "begging" or "panhandling" shall be synonymous and shall mean asking for money or objects of value, with the intention that the money or object be transferred at that time, and at that place. "Solicit" or "Soliciting" shall include using the spoken, written, or printed word, bodily gestures, signs, or other means of communication with the purpose of obtaining an immediate donation of money or other thing of value the same as begging or panhandling and also include the offer to immediately exchange and/or sell any goods or services.

"Aggressive manner" shall mean:

- approaching or speaking to a person, or following a person before, during or after soliciting if that conduct is intended or is likely to cause a reasonable person to fear bodily harm to oneself or to another, or damage to or loss of property or otherwise to be intimidated into giving money or other thing of value;
- (2) continuing to solicit from a person after the person has given a negative response to such soliciting;
- (3) intentionally touching or causing physical contact with another person or their property without that person's consent in the course of soliciting;

- (4) intentionally blocking or interfering with the safe or free passage of a pedestrian or vehicle by any means, including unreasonably causing a pedestrian or vehicle operator to take evasive action to avoid physical contact;
- (5) using violent or threatening language and/or gestures toward a person being solicited, or toward their property, which are likely to provoke an immediate violent reaction from the person being solicited;
- (6) following the person being solicited, with the intent of asking that person for money or other things of value;
- (7) soliciting money from anyone who is waiting in line for tickets, for entry to a building or for any other purpose;
- (8) soliciting in a manner with conduct, words or gestures intended or likely to cause a reasonable person to fear immediate bodily harm, danger or damage to or loss of property or otherwise be intimidated into giving money or any other thing of value;
- (9) begging in a group of two or more persons in an intimidating fashion;
- (10) soliciting any person within 20 feet of the entrance to, or parking area of, any bank, automated teller machine, automated teller machine facility, check cashing business, mass transportation facility, mass transportation stop, public restroom, pay telephone or theatre or place of public assembly, or of any outdoor seating area of any cafe, restaurant or other business;
- (11) soliciting any person in public after dark, which shall mean the time from one-half hour before sunset to one-half hour after sunrise.

"Automated teller machine" shall mean a device, linked to a financial institution's account records, which is able to carry out transactions, including, but not limited to: account transfers, deposits, cash withdrawals, balance inquiries, and mortgage and loan payments which are made available to banking customers.

"Automated Teller Machine Facility" shall mean the area comprised of one or more automatic teller machines, and any adjacent space which is made available to banking customers during and after regular banking hours.

"Public place" shall mean a place to which the public has access, including, but not limited to: a place which a governmental entity has title, any street open to public use, bridge, sidewalk, walkway, driveway, parking lot, plaza, transportation facility, school, park, or playground, and the doorways and entrances to building and dwellings.

"Bank" shall mean the same as defined in M.G.L. c. 167, § 1.

"Check cashing business" shall mean the same as that defined by M.G.L. c. 169A, § 1.

(d) Prohibited Activity.

It shall be unlawful for any person to beg, panhandle or solicit any other person in an aggressive manner. Any police officer observing any person violating this provision may request or order such person to cease and desist in such behavior and may arrest such person if they fail to comply with such request or order.

(e) Penalty

Any person found guilty of violating this subsection (d) of this ordinance shall be punished by a fine not to exceed \$50.00 for each such day during which the violation is committed, continued or permitted, or, that the Court may impose such community service as it shall determine in lieu of a monetary fine.

Appendix G: Worcester Task Force for eliminating Homelessness

Summary Table of Objectives, Time Frames, Responsible Parties and Targeted Funding Sources

Summary Table of Objectives, Time Objective	Time Frame	Responsible	Targeted Funding
Objective	Time Frame	Party	Source/ Projected Cost*
Objective 1.1.1 Develop 60 units of permanent supportive housing for the chronically homeless using the Housing First model.	60 units (20 units/ year for 3 years)	G. Carmark/ CMHA	HUD McKinney \$13,500/unit/year total \$810,000/yr
Objective 1.1.2 Develop 90 units of permanent supportive housing for the chronically homeless using the Home and Healthy for Good program	90 units (30 units/ year for 3 years)	Sen. E. Augustus	Commonwealth of Massachusetts \$13,500/unit/year total \$1,215,000/yr
Objective 1.1.3 Develop 90 units of permanent supportive housing for chronically and near-chronically homeless individuals using a more intensive service model through CHAIN initiative	90 units (30 units/ year for 3 years)	D. Ekstrom/ CHL	Health Foundation of Central Massachusetts \$16,000/unit/year total \$1,440,000/yr
Objective 1.1.4 Develop 30 units of permanent supportive housing for families with a disabled parent using the Housing First model.	30 units (10 units/ yr for 3 years)	G. Carmark/ CMHA	HUD McKinney Convert existing transitional housing units
Objective 1.1.5 Develop 30 units of units of permanent supportive housing for chronically homeless individuals using the Housing First model.	30 units (10 units/ yr for 3 years)	G. Carmark/ CMHA	HUD McKinney Convert existing permanent supportive housing units
Objective 1.1.6 Develop 300 units of single-person housing with services to be used as an alternative to shelter for homeless individuals.	300 units (100 units/year for 3 years) 60 new units public funding 60 project based housing choice vouchers 180 units private funding	S. Hayman/ City of Worcester	Mass. DHCD/ Mass. Housing/ CEDAC/ City of Worcester HOME Funds/ Worcester Housing Authority/ RCAP Solutions \$75,000/unit total \$4,500,000 new public funding
Objective 1.1.7 Increase state MRVP rental subsidies for Worcester homeless families by 150	150 vouchers (50/yr for 3 years)		Commonwealth of Massachusetts
Objective 1.2 Eliminate homeless shelters within 3 years and convert to Housing First model	Reduce shelter beds from current census		Commonwealth of Massachusetts DTA Conversion to

Objective	Time Frame	Responsible Party	Targeted Funding Source/ Projected Cost*
	by 33.3% per year for 3 years		Housing First
Objective 1.3 Close the PIP Shelter within 3 years	Reduce shelter beds from current census by 33.3% per year for 3 years	J. Cuddy/ SMOC	Commonwealth of Massachusetts DTA Conversion to Housing First
Objective 1.4 Develop assessment and triage services for families	Convert existing family shelter(s)		Commonwealth of Massachusetts DTA Conversion to Housing First
Objective 1.5 Develop an Assessment and Triage Service for Homeless Individuals that includes Aggressive Outreach and Case Management Components	Lease existing institutional or commercial space		Commonwealth of Mass./ City of Worcester \$800,000/yr
Objective 2.1.1 Increase availability of flexible funds to prevent homelessness through expansion of RAFT Program and Emergency Shelter Grants	Add funds to serve additional 100 families annually	G. Carmark/ CMHA	Commonwealth of Massachusetts DTA Conversion to Housing First
Objective 2.1.2 Expand case management resources for prevention of homelessness among families by two FTE staff	Add staff Year 1	G. Carmark/ CMHA	Private foundations/ Commonwealth of Mass./ City of Worcester \$80,000/yr
Objective 2.2 Increase Educational Efforts to Develop an Early Warning System to Target those At-risk of Homelessness.	Develop during Year 1	G. Carmark/ CMHA	No cost
Objective 3.1 Target the chronically homeless	Begin immediately		No cost
Objective 3.2.1 Improve admissions/discharge practices in existing housing programs to increase movement in and out of system	Initiate changes Year 1		No cost
Objective 3.2.2 Convert existing housing programs to	Initiate changes Year 1		No cost

Objective	Time Frame	Responsible Party	Targeted Funding Source/ Projected Cost*
Housing First where feasible			
Objective 3.3.1 Develop 300 job opportunities for homeless individuals and families	300 jobs (100 jobs/year for 3 years)	Hon. J. Levy	Worcester businesses No cost
Objective 3.3.2 Provide child care and after-school programming for all homeless families	Provide 200 child care/after- school slots for homeless families		Commonwealth of Massachusetts DTA Conversion to Housing First
Objective 3.3.3 Provide 50% subsidized bus passes for homeless families	100 families/year		City of Worcester/ WRTA \$3,000/yr
Objective 4.1 Help coordinate and monitor the performance of Worcester housing and service programs for the homeless	Year 1 0.5 FTE staff or equivalent		City of Worcester \$35,000/yr
Objective 4.2 Develop a City Commission on Homelessness	Year 1 0.5 FTE staff or equivalent		City of Worcester \$35,000/yr
Objective 5.1 Support legislation by the Commonwealth that reimburses Cities for the loss of taxable income from property converted to use by nonprofits; and, penalizes communities that do not accept their fair share of nonprofit programs	Year 1		Commonwealth of Mass. No cost
Objective 5.2 Involve local businesses and colleges in siting programs and developing new housing for the homeless	Year 1	Hon. J. Levy	Worcester businesses and colleges No public funds

Total Annual Cost = \$4,418,000 Total One-time Cost = \$4,500,000

References

- "Benchmarking Public Safety in Worcester." *Wrrb.org*. The Research Bureau, May 2012. Web. 20 Feb. 2013.
- Berg, Bruce. "Focus Group Interviewing." *Qualitative Research Methods for the Social Sciences*. Boston: Peason, 1989. 144-47. Print.
- Botts, Steven. "Abandoned, Vacant, and Unoccupied Buildings." *Usfa.fema.gov.* N.p., Feb. 2010. Web. 20 Feb. 2013
- Bowen, Michael. Hodge, Kathlyn. Ilacqua, David. McDonough, Margaret. "The Role of Income, Race, and Education on Unequal Exposure to Environmental Hazards" Worcester Polytechnic Institute. 2012.
- Chester, Mitchell. "Massachusetts Department of Elementary and Secondary Education." *Mahomeless.org.* N.p., 2002. Web. 20 Feb. 2013.
- Clark University. "Community and Volunteering, History of Main South." *Clark University*. N.p., n.d. Web. 09 Dec. 2012.
- "Cooperative Agreements." *EPA*. Environmental Protection Agency, June 2012. Web. 09 Dec. 2012.
- Daly, Katy. "Abandoned Buildings Create Crime Problem in Worcester." *NECN.* 8 Dec. 2008. Web. 20 Feb. 2013.
- Duhart, Detis J., PhD. "Bureau of Justice Statistics." *BJS*. U.S. Department of Justice, Oct. 2000. Web. 20 Feb. 2013.
- "EDUCATION AND YOUTH DEVELOPMENT IMPROVING OUTCOMES FOR HOMELESS YOUTH." *RootCause*. N.p., Sept. 2012. Web. 20 Feb. 2013.
- Faber, Daniel. "Environmental Justice." *Environmental Justice*. NCIB, 2002. Web. 2012.
- Hammel, Lee. "Homeless Faring Better despite Economy." *Worcester Telegram & Gazette*. N.p., 15 Apr. 2003. Web. 20 Feb. 2013.
- Kotsopoulus, Nick. "Councilor Rivera Argues Worcester Should Treat Prostitution as Public Health Problem." *Worcester Telegram & Gazette*. 30 Sept. 2012. Web. 20 Feb. 2013.
- Levy, Jordan. "Three Year Plan to End Homelessness in Worcester." www.worcester.ma.gov, Nov. 2007. Web. 20 Feb. 2013.

- Mount, Michael. "Beware of That Old Abandoned Building: A Guide to Remodeling | Forensic Magazine." *Forensicmag.org*. Vicon Business Media, 02 Jan. 2006. Web. 22 Feb. 2013.
- "Oak Hill Strategic Plan." Oak Hill Community Development Center. N.p., 2012. Web.
- O'Keefe, Tim. "Is Main South Really Headed North?" *Worcester Mag.* N.p., 07 June 2012. Web.
- Pomeroy, Wardell. "Some Aspects of Prostitution." *Tandfonline.com*. Indiana University, 11 Jan. 2010. Web. 20 Feb. 2013.
- "Regional Environmental Council | Diesel Pollution Solution" *Regional Environmental Council of Central Massachusetts*. N.p., 2011. Web. 27 Nov. 2012.
- "Regional Environmental Council | Green & Healthy Homes Coalition." *Regional Environmental Council of Central Massachusetts*. N.p., 2011. Web. 27 Nov. 2012.
- "Regional Environmental Council | Trash Action." *Regional Environmental Council of Central Massachusetts*. N.p., 2011. Web. 27 Nov. 2012.
- "Regional Environmental Council | Weatherize Worcester." *Regional Environmental Council of Central Massachusetts*. N.p., 2011. Web. 27 Nov. 2012.
- "Regional Environmental Council | Who We Are." *Regional Environmental Council of Central Massachusetts*. N.p., 2012. Web. 27 Nov. 2012. http://www.recworcester.org/about/>.
- "Regional Environmental Council | Who We Are." *Regional Environmental Council of Central Massachusetts*. N.p., 2012. Web. 27 Nov. 2012. http://www.recworcester.org/about/>.
- Shane, Jon. "Abandoned Buildings and Lots." *Popcenter.org*. N.p., July 2012. Web. 20 Feb. 2013.
- "The Worcester Six." *The Worcester Six.* N.p., 2000. Web. 20 Feb. 2013.
- "Town Rankings." Northeastern University, 2011. Web. 2012.
- Urban Residential Fires: An Empirical Analysis of Building Stock and Socioeconomic Characteristics for Memphis, Tennessee. Dissertation by Charles R. Jennings, Cornell University, August 1996.
- "Worcester Community Information." *Trulia*. N.p., 2013. Web. 22 Feb. 2013.

"Worcester Crime Rate Report (Massachusetts)." *Worcester Crime Statistics: Massachusetts (MA)*. N.p., 2013. Web. 20 Feb. 2013.