MEMORANDUM

DATE: December 6, 2012

TO: File

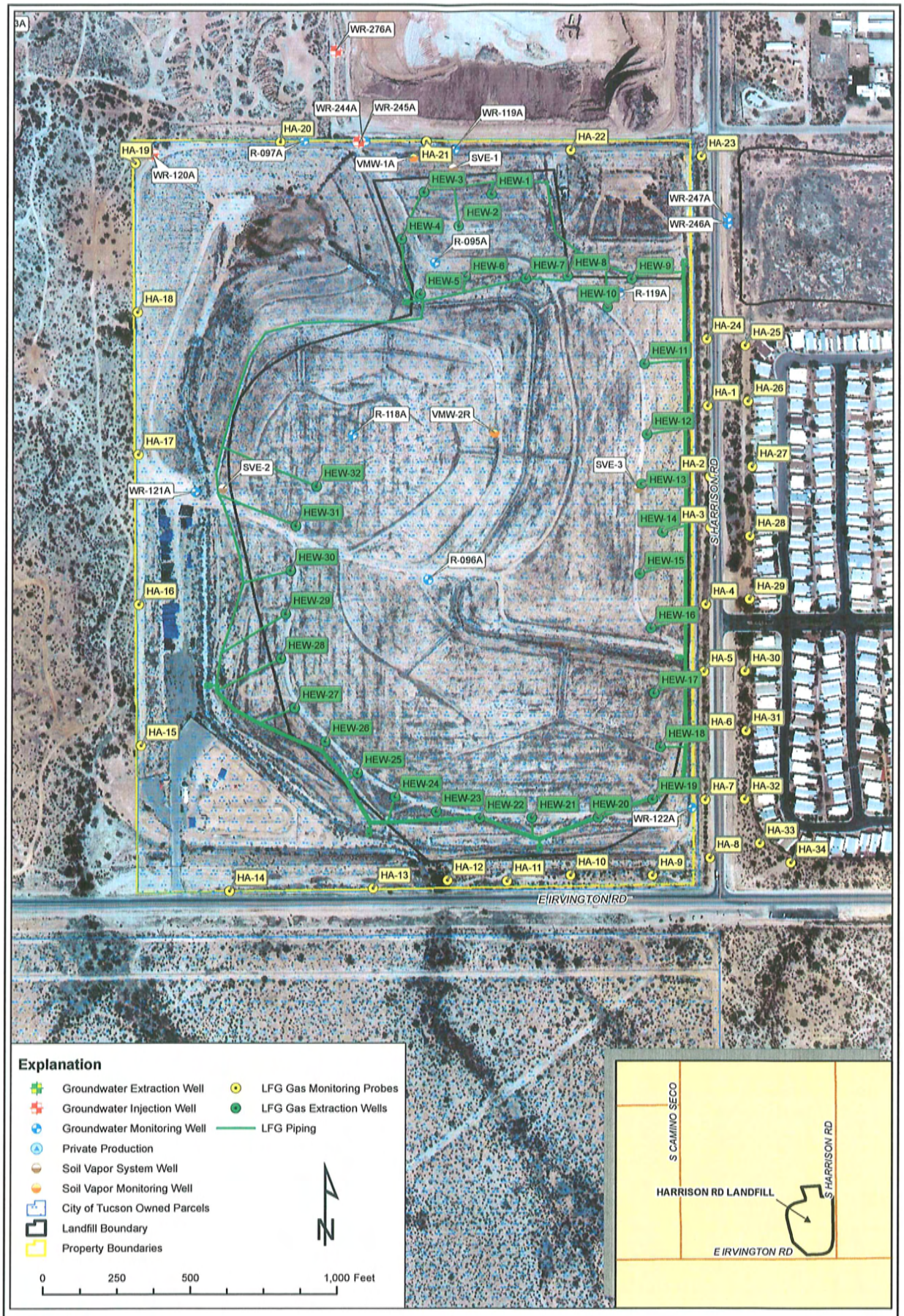
FROM: Jeff Drumm, PE JTD
Environmental Manager
Environmental Services

SUBJECT: 2012 Annual Landfill Inspection Report

The City of Tucson (COT) – Environmental Services (ES) has prepared this report to document the annual landfill inspections. Checkmarks in the discrepancy section of the inspection forms indicate items reviewed.

CITY OF TUCSON ENVIRONMENTAL SERVICES
ANNUAL CLOSED LANDFILL INSPECTION REPORT
HARRISON LANDFILL

INSPECTION ITEM	DISCREPANCY	CORRECTIVE ACTION
Perimeter Security Fence and Gate (holes, structure issues)	✓	
Inspection Roads (washouts, obstructions, potholes)	✓	
Storm Water Controls (berms, let downs, spillways)	✓	
Storm Water Retention Basins (washouts, excessive silt in, holding water)	✓ BERM AROUND CARBON TANK	SCHEDULE IT
Landfill Earthen Cap (washouts, trash showing, debris and trash)	✓	
Landfill Gas Extraction System Wellfield (piping, wells, vaults, washouts)	✓	
Landfill Gas Extraction System Compound (fencing, blower equipment, flare, carbon canisters)	✓	
Landfill Gas Monitoring Wells (including bollards, vaults, locks)	✓	
Groundwater Monitoring Wells (including bollards, vaults, locks)	✓	
Remediation Equipment (compound fence, erosions, leaks)	✓	
Illegal Dumping (including overgrown vegetation, homeless camps, vectors)	✓	
Neighboring Land Uses (changing adjacent land uses that will or currently are impacting the landfill site)	✓	
INSPECTOR SIGNATURE		**DATE** 12/5/12



CITY OF TUCSON
ENVIRONMENTAL SERVICES

Figure 1
Harrison Landfill
Site Map

Drawn By:	LE
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Date:	2/9/2011
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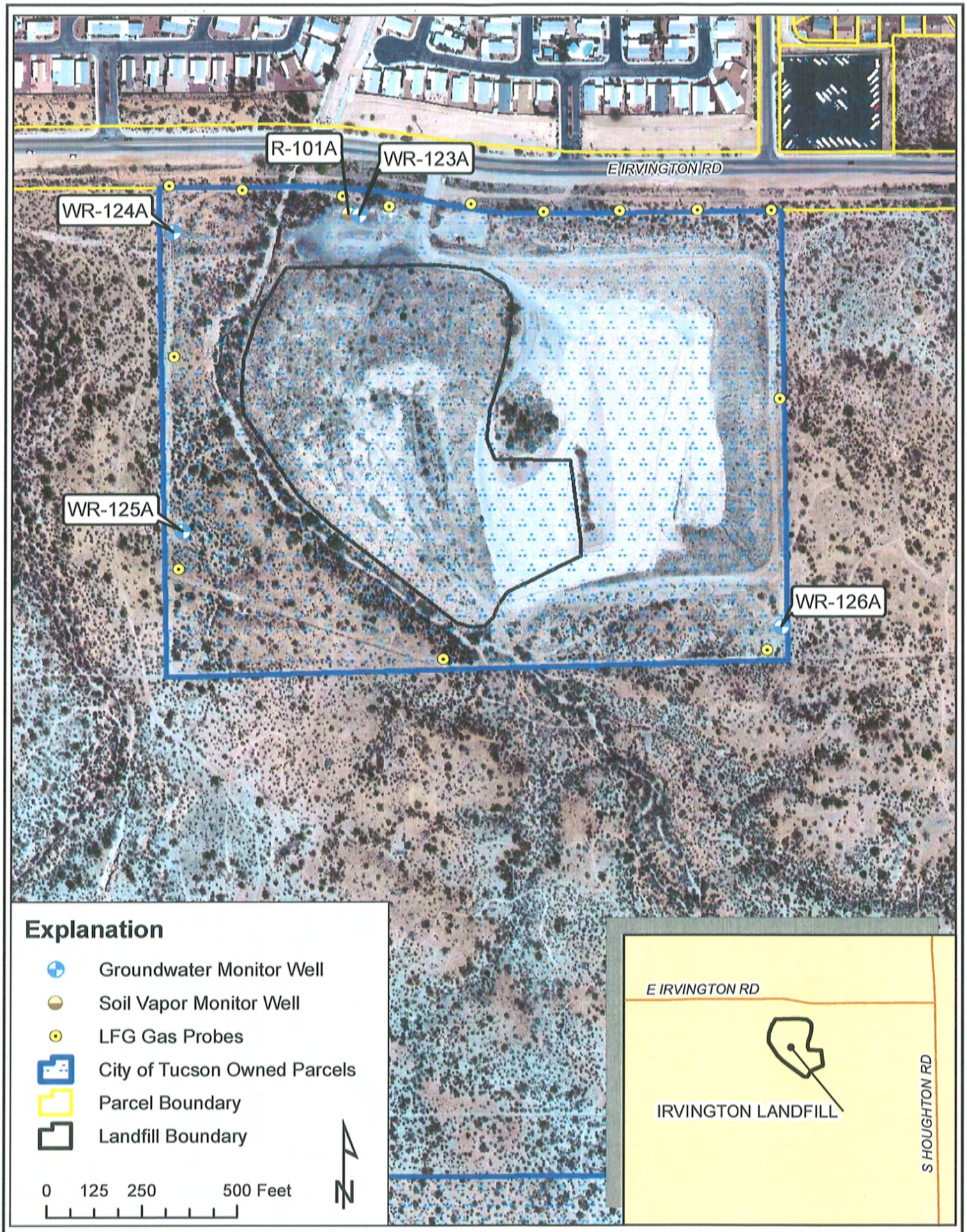
CITY OF TUCSON ENVIRONMENTAL SERVICES
ANNUAL CLOSED LANDFILL INSPECTION REPORT
IRVINGTON LANDFILL

INSPECTION ITEM	DISCREPANCY	CORRECTIVE ACTION
Perimeter Security Fence and Gate (holes, structure issues)	✓	
Inspection Roads (washouts, obstructions, potholes)	✓	
Storm Water Controls (berms, let downs, spillways)	✓	
Storm Water Retention Basins (washouts, excessive silt in, holding water)	✓	
Landfill Earthen Cap (washouts, trash showing, debris and trash)	✓	
Landfill Gas Extraction System Wellfield (piping, wells, vaults, washouts)	NA	
Landfill Gas Extraction System Compound (fencing, blower equipment, flare, carbon canisters)	NA	
Landfill Gas Monitoring Wells (including bollards, vaults, locks)	✓	
Groundwater Monitoring Wells (including bollards, vaults, locks)	✓	
Remediation Equipment (compound fence, erosions, leaks)	NA	
Illegal Dumping (including overgrown vegetation, homeless camps, vectors)	✓	
Neighboring Land Uses (changing adjacent land uses that will or currently are impacting the landfill site)	✓	
INSPECTOR SIGNATURE		**DATE** 12/5/12



CITY OF TUCSON
ENVIRONMENTAL SERVICES

Figure 2
Irvington Landfill
Site Map

Drawn By:	LE
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Date:	10/26/2010
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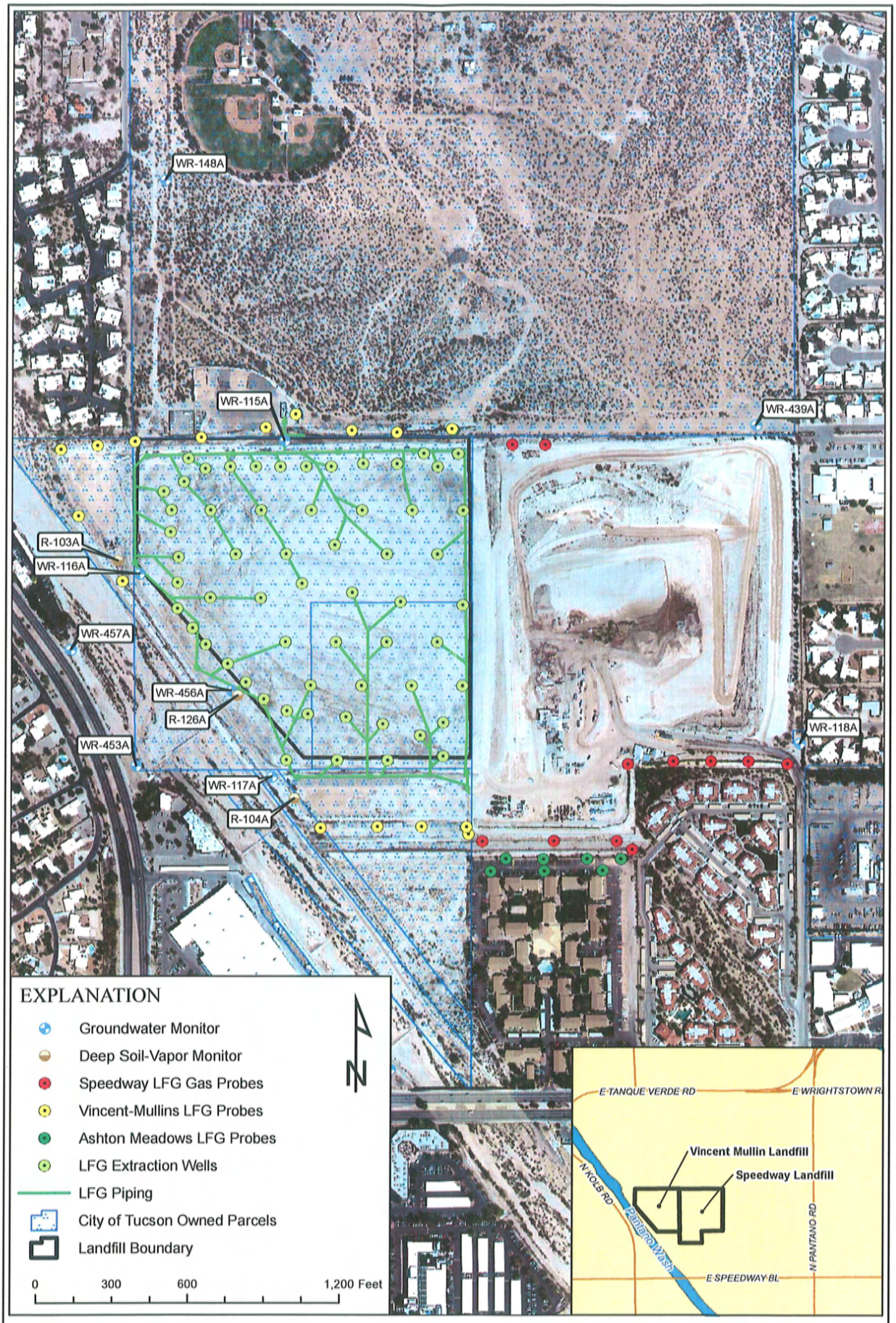
CITY OF TUCSON ENVIRONMENTAL SERVICES
ANNUAL CLOSED LANDFILL INSPECTION REPORT
VINCENT MULLINS LANDFILL

INSPECTION ITEM	DISCREPANCY	CORRECTIVE ACTION
Perimeter Security Fence and Gate (holes, structure issues)	✓	
Inspection Roads (washouts, obstructions, potholes)	✓	
Storm Water Controls (berms, let downs, spillways)	✓	
Storm Water Retention Basins (washouts, excessive silt in, holding water)	✓	
Landfill Earthen Cap (washouts, trash showing, debris and trash)	✓	
Landfill Gas Extraction System Wellfield (piping, wells, vaults, washouts)	✓	
Landfill Gas Extraction System Compound (fencing, blower equipment, flare, carbon canisters)	✓	
Landfill Gas Monitoring Wells (including bollards, vaults, locks)	✓	
Groundwater Monitoring Wells (including bollards, vaults, locks)	✓	
Remediation Equipment (compound fence, erosions, leaks)	✓	
Illegal Dumping (including overgrown vegetation, homeless camps, vectors)	✓	
Neighboring Land Uses (changing adjacent land uses that will or currently are impacting the landfill site)	✓	
INSPECTOR SIGNATURE		**DATE** 12/5/12



CITY OF TUCSON
ENVIRONMENTAL SERVICES

Figure 3
Vincent Mullins Landfill
Site Map

Drawn By:	LE
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Approved:	NP
Date:	2/9/2011
File:	See Below

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CITY OF TUCSON ENVIRONMENTAL SERVICES
ANNUAL CLOSED LANDFILL INSPECTION REPORT
A-MOUNTAIN LANDFILL

INSPECTION ITEM	DISCREPANCY	CORRECTIVE ACTION
Perimeter Security Fence and Gate (holes, structure issues)	NONE	
Inspection Roads (washouts, obstructions, potholes)	✓	
Storm Water Controls (berms, let downs, spillways)	✓ OK BERMING UNDERWAY	
Storm Water Retention Basins (washouts, excessive silt in, holding water)	NA	
Landfill Earthen Cap (washouts, trash showing, debris and trash)	✓	
Landfill Gas Extraction System Wellfield (piping, wells, vaults, washouts)	NA	
Landfill Gas Extraction System Compound (fencing, blower equipment, flare, carbon canisters)	NA	
Landfill Gas Monitoring Wells (including bollards, vaults, locks)	✓	
Groundwater Monitoring Wells (including bollards, vaults, locks)	✓	
Remediation Equipment (compound fence, erosions, leaks)	NA	
Illegal Dumping (including overgrown vegetation, homeless camps, vectors)	NONE	
Neighboring Land Uses (changing adjacent land uses that will or currently are impacting the landfill site)	BRIDGE GOING IN NORTH OF LF	
INSPECTOR SIGNATURE		**DATE** 12/5/12

CITY OF TUCSON
ENVIRONMENTAL SERVICES

Figure 1
A-Mountain Landfill
Inspection Site Map

Drawn By:	LE
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Date:	10/22/2010
File:	See Below

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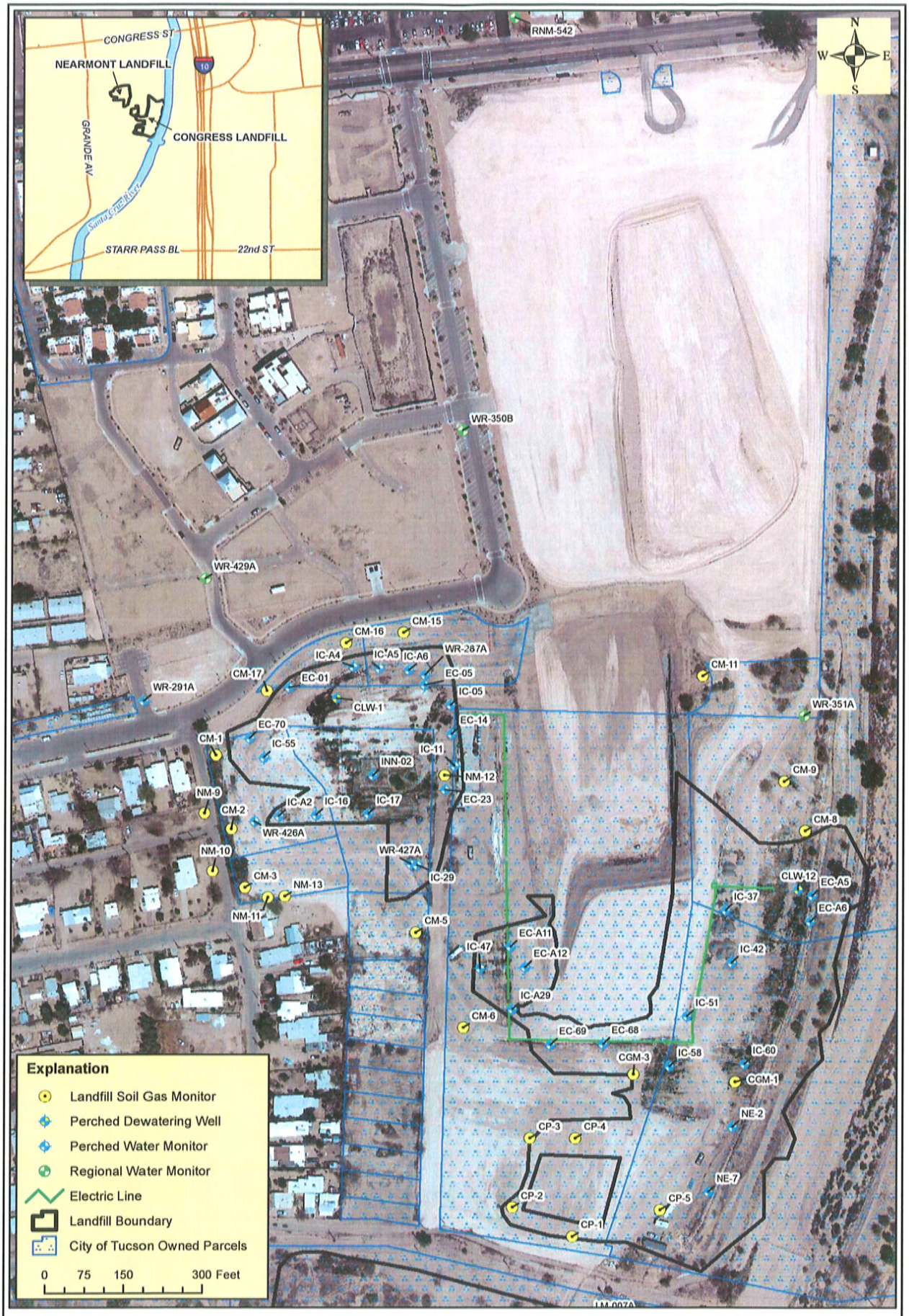
CITY OF TUCSON ENVIRONMENTAL SERVICES
ANNUAL CLOSED LANDFILL INSPECTION REPORT
CONGRESS AND NEARMONT LANDFILL

INSPECTION ITEM	DISCREPANCY	CORRECTIVE ACTION
Perimeter Security Fence and Gate (holes, structure issues)	✓ OK AROUND GARAGE PIT	
Inspection Roads (washouts, obstructions, potholes)	✓	
Storm Water Controls (berms, let downs, spillways)	✓	
Storm Water Retention Basins (washouts, excessive silt in, holding water)	✓	
Landfill Earthen Cap (washouts, trash showing, debris and trash)	✓	
Landfill Gas Extraction System Wellfield (piping, wells, vaults, washouts)	NA	
Landfill Gas Extraction System Compound (fencing, blower equipment, flare, carbon canisters)	COMPOUND SECURE	
Landfill Gas Monitoring Wells (including bollards, vaults, locks)	✓	
Groundwater Monitoring Wells (including bollards, vaults, locks)	✓	
Remediation Equipment (compound fence, erosions, leaks)	NA	
Illegal Dumping (including overgrown vegetation, homeless camps, vectors)	✓	
Neighboring Land Uses (changing adjacent land uses that will or currently are impacting the landfill site)	BRIDGE GOING IN ON SITE	
INSPECTOR SIGNATURE		**DATE** 12/5/12



CITY OF TUCSON
ENVIRONMENTAL SERVICES

Figure 2
Congress and Nearmont Landfills
Inspection Site Map

Drawn By:	LE
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Approved:	NP
Date:	10/22/2010
File:	See Below

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CITY OF TUCSON ENVIRONMENTAL SERVICES
ANNUAL CLOSED LANDFILL INSPECTION REPORT
COTTONWOOD LANDFILL

INSPECTION ITEM	DISCREPANCY	CORRECTIVE ACTION
Perimeter Security Fence and Gate (holes, structure issues)	✓	
Inspection Roads (washouts, obstructions, potholes)	✓	
Storm Water Controls (berms, let downs, spillways)	✓	
Storm Water Retention Basins (washouts, excessive silt in, holding water)	NA	
Landfill Earthen Cap (washouts, trash showing, debris and trash)	✓	
Landfill Gas Extraction System Wellfield (piping, wells, vaults, washouts)	NA	
Landfill Gas Extraction System Compound (fencing, blower equipment, flare, carbon canisters)	NA	
Landfill Gas Monitoring Wells (including bollards, vaults, locks)	✓	
Groundwater Monitoring Wells (including bollards, vaults, locks)	✓	
Remediation Equipment (compound fence, erosions, leaks)	NA	
Illegal Dumping (including overgrown vegetation, homeless camps, vectors)	✓	
Neighboring Land Uses (changing adjacent land uses that will or currently are impacting the landfill site)	✓	
INSPECTOR SIGNATURE		**DATE** 12/6/12

CITY OF TUCSON
ENVIRONMENTAL SERVICES

Figure 3
Cottonwood Landfill
Inspection Site Map

Drawn By:	LE
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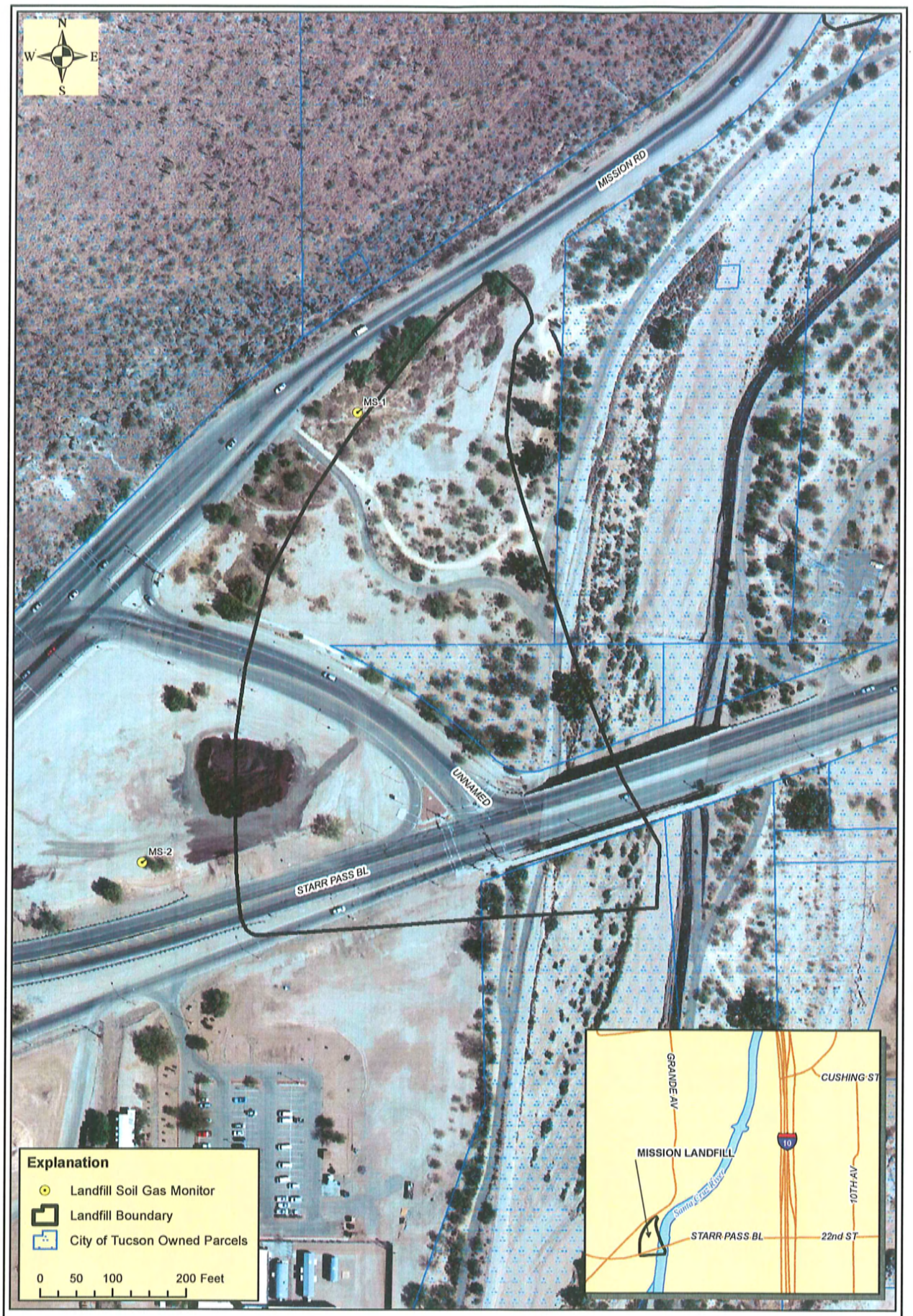
CITY OF TUCSON ENVIRONMENTAL SERVICES
ANNUAL CLOSED LANDFILL INSPECTION REPORT
MISSION LANDFILL

INSPECTION ITEM	DISCREPANCY	CORRECTIVE ACTION
Perimeter Security Fence and Gate (holes, structure issues)	NA	
Inspection Roads (washouts, obstructions, potholes)	NA	
Storm Water Controls (berms, let downs, spillways)	NA	
Storm Water Retention Basins (washouts, excessive silt in, holding water)	NA	
Landfill Earthen Cap (washouts, trash showing, debris and trash)	✓	
Landfill Gas Extraction System Wellfield (piping, wells, vaults, washouts)	NA	
Landfill Gas Extraction System Compound (fencing, blower equipment, flare, carbon canisters)	NA	
Landfill Gas Monitoring Wells (including bollards, vaults, locks)	✓	
Groundwater Monitoring Wells (including bollards, vaults, locks)	NA	
Remediation Equipment (compound fence, erosions, leaks)	NA	
Illegal Dumping (including overgrown vegetation, homeless camps, vectors)	NA	
Neighboring Land Uses (changing adjacent land uses that will or currently are impacting the landfill site)	LF IS IN CENTER OF INTERSECTION NOW W/ ROCK COVER. ALL OK	
INSPECTOR SIGNATURE		**DATE** 12/6/12



CITY OF TUCSON
ENVIRONMENTAL SERVICES

Figure 4
Mission Landfill
Inspection Site Map

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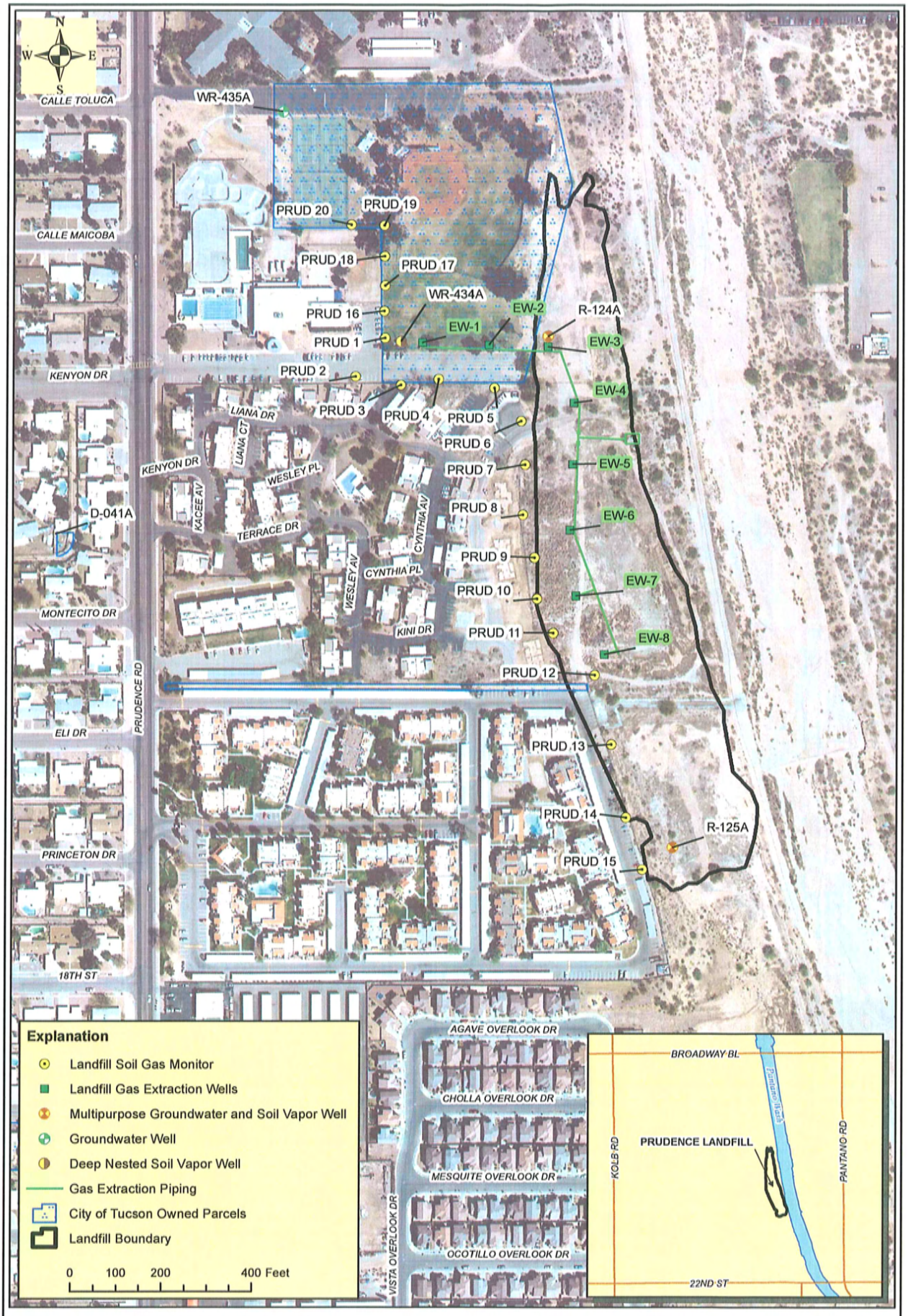
CITY OF TUCSON ENVIRONMENTAL SERVICES
ANNUAL CLOSED LANDFILL INSPECTION REPORT
PRUDENCE LANDFILL

INSPECTION ITEM	DISCREPANCY	CORRECTIVE ACTION
Perimeter Security Fence and Gate (holes, structure issues)	✓	
Inspection Roads (washouts, obstructions, potholes)	✓	
Storm Water Controls (berms, let downs, spillways)	✓	
Storm Water Retention Basins (washouts, excessive silt in, holding water)	NA	
Landfill Earthen Cap (washouts, trash showing, debris and trash)	✓ SPARSE COVER	SCHEDULE MAINT
Landfill Gas Extraction System Wellfield (piping, wells, vaults, washouts)	✓	
Landfill Gas Extraction System Compound (fencing, blower equipment, flare, carbon canisters)	✓ WELL VAULTS NEED REPAIR	SCHEDULE MAINT
Landfill Gas Monitoring Wells (including bollards, vaults, locks)	✓ "	"
Groundwater Monitoring Wells (including bollards, vaults, locks)	✓	
Remediation Equipment (compound fence, erosions, leaks)	NA	
Illegal Dumping (including overgrown vegetation, homeless camps, vectors)	✓	
Neighboring Land Uses (changing adjacent land uses that will or currently are impacting the landfill site)	✓	
INSPECTOR SIGNATURE		**DATE** 12/6/12



CITY OF TUCSON
ENVIRONMENTAL SERVICES

Figure 5
Prudence Landfill
Inspection Site Map

Drawn By:	LE
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Date:	10/25/2010
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CITY OF TUCSON ENVIRONMENTAL SERVICES
ANNUAL CLOSED LANDFILL INSPECTION REPORT
TUMAMOC LANDFILL

INSPECTION ITEM	DISCREPANCY	CORRECTIVE ACTION
Perimeter Security Fence and Gate (holes, structure issues)	✓	
Inspection Roads (washouts, obstructions, potholes)	✓	
Storm Water Controls (berms, let downs, spillways)	MAINT SCHEDULED	BID PCKG IN JAN
Storm Water Retention Basins (washouts, excessive silt in, holding water)	"	"
Landfill Earthen Cap (washouts, trash showing, debris and trash)	"	"
Landfill Gas Extraction System Wellfield (piping, wells, vaults, washouts)	NA	
Landfill Gas Extraction System Compound (fencing, blower equipment, flare, carbon canisters)	NA	
Landfill Gas Monitoring Wells (including bollards, vaults, locks)	✓	
Groundwater Monitoring Wells (including bollards, vaults, locks)	✓	
Remediation Equipment (compound fence, erosions, leaks)	NA	
Illegal Dumping (including overgrown vegetation, homeless camps, vectors)	✓	
Neighboring Land Uses (changing adjacent land uses that will or currently are impacting the landfill site)	✓	
INSPECTOR SIGNATURE		**DATE** 12/6/12

CITY OF TUCSON
ENVIRONMENTAL SERVICES

Figure 11
Tumamoc Landfill
Inspection Site Map

Drawn By:	LE
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Date:	10/25/2010
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CITY OF TUCSON ENVIRONMENTAL SERVICES
ANNUAL CLOSED LANDFILL INSPECTION REPORT
RYAN AIRFIELD LANDFILL

INSPECTION ITEM	DISCREPANCY	CORRECTIVE ACTION
Perimeter Security Fence and Gate (holes, structure issues)	✓	
Inspection Roads (washouts, obstructions, potholes)	✓	
Storm Water Controls (berms, let downs, spillways)	✓	
Storm Water Retention Basins (washouts, excessive silt in, holding water)	NA	
Landfill Earthen Cap (washouts, trash showing, debris and trash)	✓	
Landfill Gas Extraction System Wellfield (piping, wells, vaults, washouts)	NA	
Landfill Gas Extraction System Compound (fencing, blower equipment, flare, carbon canisters)	NA	
Landfill Gas Monitoring Wells (including bollards, vaults, locks)	NA	
Groundwater Monitoring Wells (including bollards, vaults, locks)	✓	
Remediation Equipment (compound fence, erosions, leaks)	NA	
Illegal Dumping (including overgrown vegetation, homeless camps, vectors)	✓	
Neighboring Land Uses (changing adjacent land uses that will or currently are impacting the landfill site)	✓	
INSPECTOR SIGNATURE		**DATE** 12/6/12

CITY OF TUCSON
ENVIRONMENTAL SERVICES

Figure 7
Ryan Airfield Landfill
Inspection Site Map

Drawn By:	LE
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Date:	10/22/2010
File:	See Below

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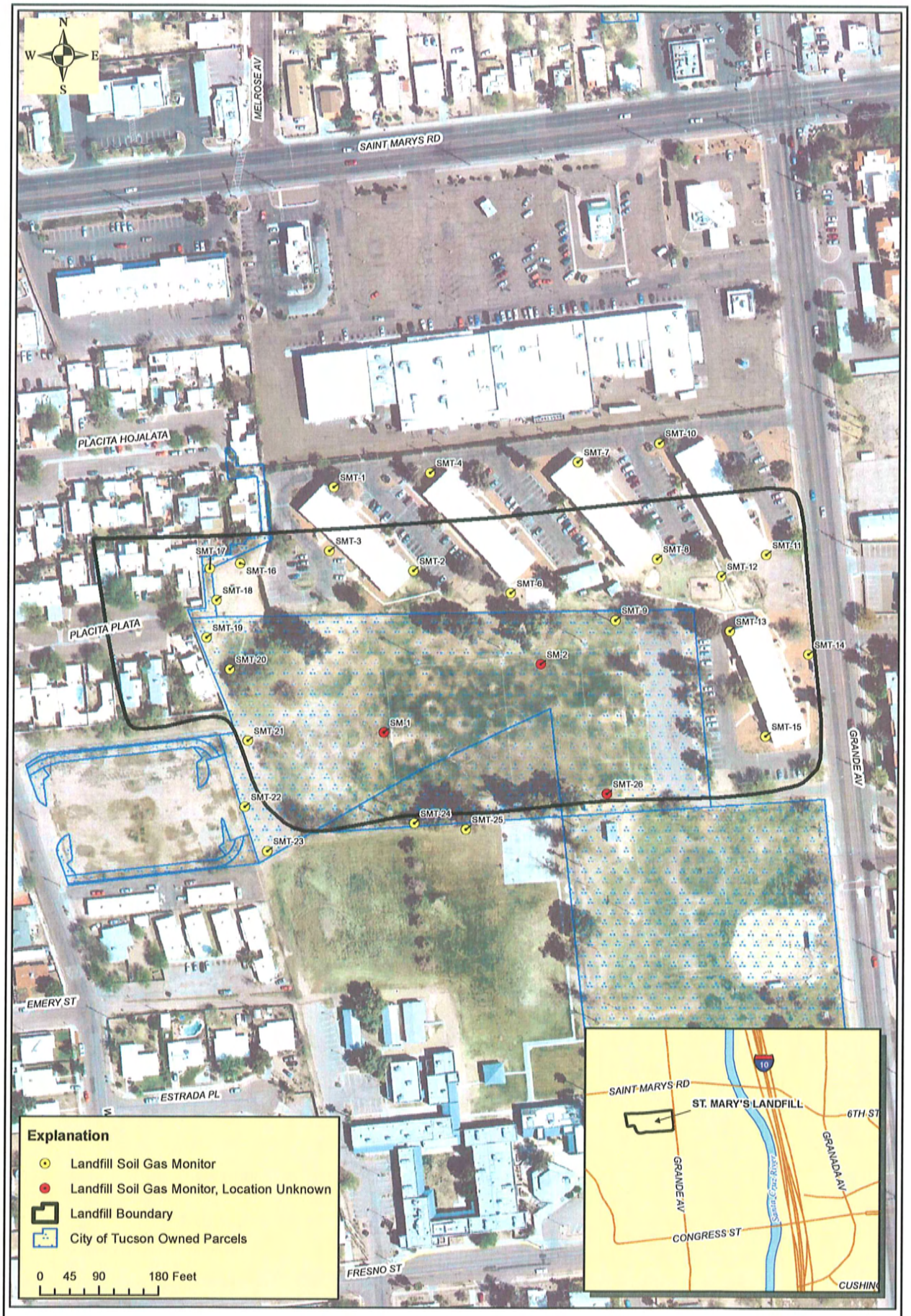
CITY OF TUCSON ENVIRONMENTAL SERVICES
ANNUAL CLOSED LANDFILL INSPECTION REPORT
ST MARYS LANDFILL

INSPECTION ITEM	DISCREPANCY	CORRECTIVE ACTION
Perimeter Security Fence and Gate (holes, structure issues)	✓ NA	
Inspection Roads (washouts, obstructions, potholes)	NA	
Storm Water Controls (berms, let downs, spillways)	NA	
Storm Water Retention Basins (washouts, excessive silt in, holding water)	NA	
Landfill Earthen Cap (washouts, trash showing, debris and trash)	✓	
Landfill Gas Extraction System Wellfield (piping, wells, vaults, washouts)	NA	
Landfill Gas Extraction System Compound (fencing, blower equipment, flare, carbon canisters)	NA	
Landfill Gas Monitoring Wells (including bollards, vaults, locks)	✓	
Groundwater Monitoring Wells (including bollards, vaults, locks)	✓	
Remediation Equipment (compound fence, erosions, leaks)	NA	
Illegal Dumping (including overgrown vegetation, homeless camps, vectors)	✓	
Neighboring Land Uses (changing adjacent land uses that will or currently are impacting the landfill site)	✓	
INSPECTOR SIGNATURE		**DATE** 12/6/12



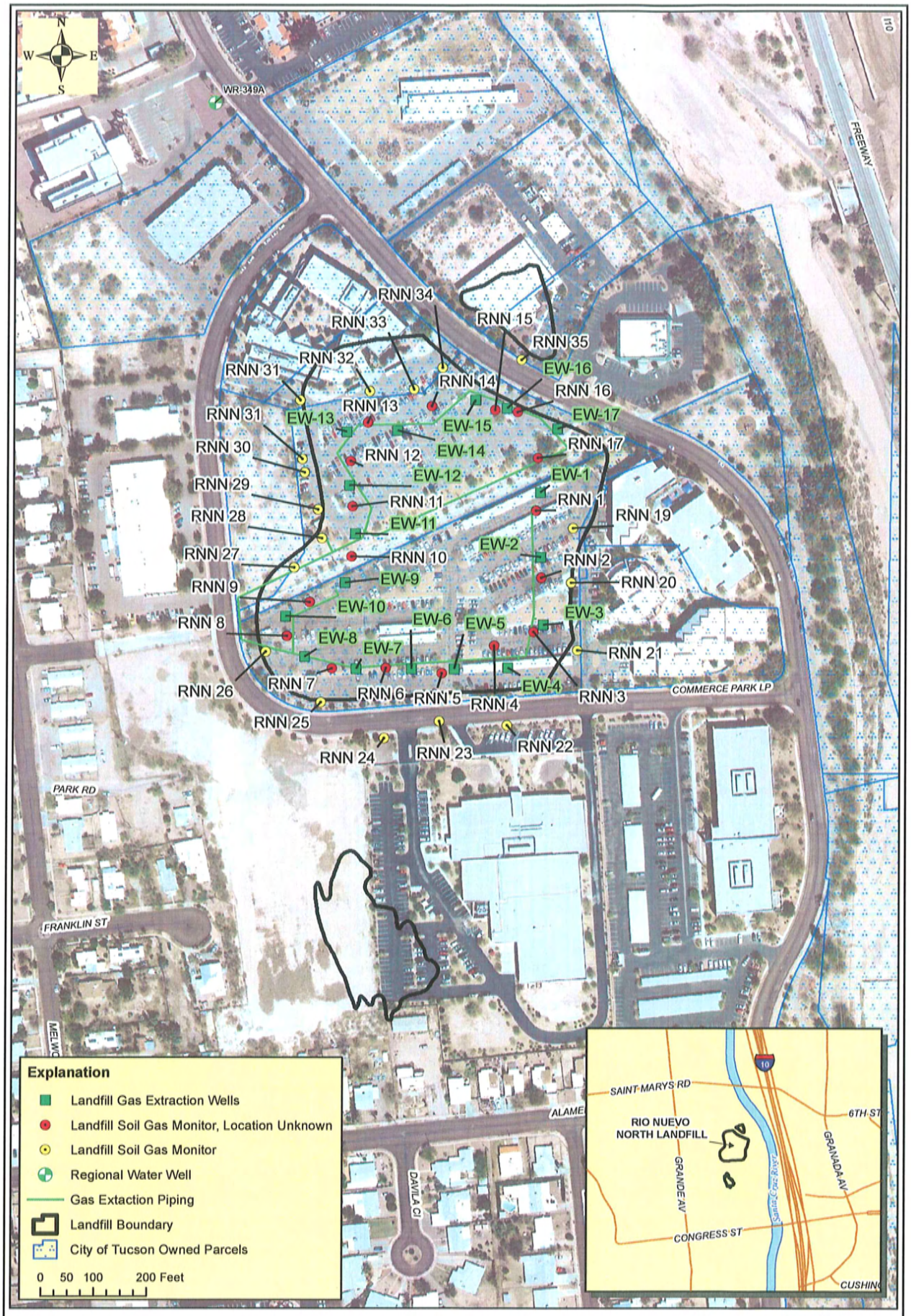
CITY OF TUCSON
ENVIRONMENTAL SERVICES

Figure 10
St. Mary's Landfill
Inspection Site Map

Drawn By:	LE
Checked:	JD
Approved:	NP
Date:	10/22/2010
File:	See Below

CITY OF TUCSON ENVIRONMENTAL SERVICES
ANNUAL CLOSED LANDFILL INSPECTION REPORT
RIO NUEVO NORTH LANDFILL

INSPECTION ITEM	DISCREPANCY	CORRECTIVE ACTION
Perimeter Security Fence and Gate (holes, structure issues)	✓	
Inspection Roads (washouts, obstructions, potholes)	✓	
Storm Water Controls (berms, let downs, spillways)	✓	
Storm Water Retention Basins (washouts, excessive silt in, holding water)	✓	
Landfill Earthen Cap (washouts, trash showing, debris and trash)	✓	
Landfill Gas Extraction System Wellfield (piping, wells, vaults, washouts)	✓	
Landfill Gas Extraction System Compound (fencing, blower equipment, flare, carbon canisters)	✓	
Landfill Gas Monitoring Wells (including bollards, vaults, locks)	✓	
Groundwater Monitoring Wells (including bollards, vaults, locks)	✓	
Remediation Equipment (compound fence, erosions, leaks)	NA	
Illegal Dumping (including overgrown vegetation, homeless camps, vectors)	✓	
Neighboring Land Uses (changing adjacent land uses that will or currently are impacting the landfill site)	✓	
INSPECTOR SIGNATURE		**DATE** 12/6/12



CITY OF TUCSON
ENVIRONMENTAL SERVICES

Figure 6
Rio Nuevo Landfill
Inspection Site Map

Drawn By:	LE
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Date:	10/22/2010
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CITY OF TUCSON ENVIRONMENTAL SERVICES
ANNUAL CLOSED LANDFILL INSPECTION REPORT
RYLAND LANDFILL

INSPECTION ITEM	DISCREPANCY	CORRECTIVE ACTION
Perimeter Security Fence and Gate (holes, structure issues)	✓	
Inspection Roads (washouts, obstructions, potholes)	✓	
Storm Water Controls (berms, let downs, spillways)	✓	
Storm Water Retention Basins (washouts, excessive silt in, holding water)	✓	
Landfill Earthen Cap (washouts, trash showing, debris and trash)	✓	
Landfill Gas Extraction System Wellfield (piping, wells, vaults, washouts)	NA	
Landfill Gas Extraction System Compound (fencing, blower equipment, flare, carbon canisters)	NA	
Landfill Gas Monitoring Wells (including bollards, vaults, locks)	NA	
Groundwater Monitoring Wells (including bollards, vaults, locks)	✓	
Remediation Equipment (compound fence, erosions, leaks)	NA	
Illegal Dumping (including overgrown vegetation, homeless camps, vectors)	BAD IN WASH BASIN	NOTIFY STORMWATER
Neighboring Land Uses (changing adjacent land uses that will or currently are impacting the landfill site)		
INSPECTOR SIGNATURE		**DATE** 12/6/12

CITY OF TUCSON
ENVIRONMENTAL SERVICES

Figure 8
Ryland Landfill
Inspection Site Map

Drawn By:	LE
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Approved:	NP
Date:	10/22/2010
File:	See Below

J:\GIS\Environmental\2010\Ryland.mxd

CITY OF TUCSON ENVIRONMENTAL SERVICES
ANNUAL CLOSED LANDFILL INSPECTION REPORT
SILVERBELL LANDFILL

INSPECTION ITEM	DISCREPANCY	CORRECTIVE ACTION
Perimeter Security Fence and Gate (holes, structure issues)	NA	
Inspection Roads (washouts, obstructions, potholes)	✓	
Storm Water Controls (berms, let downs, spillways)	NA	
Storm Water Retention Basins (washouts, excessive silt in, holding water)	NA	
Landfill Earthen Cap (washouts, trash showing, debris and trash)	✓ SPARSE COVER	SCHEDULE MAINT
Landfill Gas Extraction System Wellfield (piping, wells, vaults, washouts)	NA	
Landfill Gas Extraction System Compound (fencing, blower equipment, flare, carbon canisters)	NA	
Landfill Gas Monitoring Wells (including bollards, vaults, locks)	✓	
Groundwater Monitoring Wells (including bollards, vaults, locks)	✓	
Remediation Equipment (compound fence, erosions, leaks)	NA	
Illegal Dumping (including overgrown vegetation, homeless camps, vectors)	SOME	SCHEDULE MAINT TO CLEAN UP
Neighboring Land Uses (changing adjacent land uses that will or currently are impacting the landfill site)	✓	
INSPECTOR SIGNATURE		**DATE** 12/6/12

CITY OF TUCSON
ENVIRONMENTAL SERVICES

Figure 9
Silverbell Landfill
Inspection Site Map

Drawn By:	LE
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