STAFF APPROVAL LETTER

93-SA-2013

Verizon PHO Scottsdale Stadium Generator

STEP 1 STAFF APPROVAL NOTIFICATION

This letter is notification that your request has been conceptually approved by Current Planning Services staff.

Additional review and permits may be required. Refer to Final Plan Review Submittal Requirements below.

This approval expires two (2) years from date of approval if a permit has not been issued, or if no permit is required, work for which approval has been granted has not been completed.

PROJECT INFORMATION

LOCATION:	7408 E Osborn Rd	APPLICANT:	Crystal Powell
PARCEL:	130-24-001A	COMPANY:	Verizon Wireless
Q.S.:	16-45	ADDRESS:	126 W Gemini Dr Tempe, AZ 85283
CODE VIOLATION #:		PHONE:	480-272-2562

Request: Install a new 48 KW, 52 gallon diesel emergency generator associated with an existing wireless communication facility.

STIPULATIONS

1. Proposed back up power generator shall be in conformance with the development plans submitted by Verizon Wireless and Young Design Corp. dated 10/2/2012. Any changes to these development plans shall be subject to subsequent approvals by the City of Scottsdale Current Planning division.
2. A separate fuel tank permit will be required from the Fire Department.
3. Masonry screen wall block type and color shall match adjacent stadium building wall (split face block on bottom half, smooth on top half).
4. Permits shall not be issued until a License Agreement has been approved by Asset Management staff and the City Council.
5. Generator preventative maintenance shall not occur more than once a week and shall only occur during normal business hours.
6. Submit plans and obtain permits as required by the One Stop Shop.
7. Schedule a pre-construction meeting by contacting Inspection Services by calling 480-312-5750.

Related Cases: 93-SA-2013

SIGNATURE: Keith Niederer

Keith Niederer

DATE APPROVED: 4-9-2013

STEP 2 FINAL PLAN REVIEW SUBMITTAL REQUIREMENTS

Submit one copy of this approval letter, and a completed Owner/Builder form if applicable, along with the following plan set(s) to the One-Stop-Shop for plan review:

ARCHITECTURAL: ☒ 4 sets of architectural plans and 1 additional site plan and elevation

Type 1 or 2 WCF Staff Approval
Submittal Requirements

Project Name: Scottsdale Stadium City Staff Contact: Niederer

Project Address: 7408 E Osborn Rd Scottsdale, AZ 85251

Zoning: O-S DO A.P.N.: 130-24-002 Quarter Section: 16-45

Associated References: Project Number: 587-PA-12 Plan Check Number _____ Case(s) _____

Request: add an emergency back up generator

Is WCF located in the City right-of-way? ☐ Yes ☑ No If yes, Provider must apply for permission to work in the City R.O.W. and permission to leave private improvement in the City right-of-way.

Owner Contact: City of Scottsdale

Company: _____

Phone: _____ Fax: _____

E-mail: _____

Address: _____

Applicant Contact: Crystal Powell

Company: General Dynamics

Phone: 4.272.2542 Fax: _____

E-mail: crystal.powell@gdit.com

Address: 4604 S. Dateland, Tempe 85282

Submittal Requirements: Please submit 1 copy of materials requested below. All plans must be folded.

- ☑ Completed Application (this form) and Application Fee $460.00 (fee subject to change every July)
- ☑ Narrative describing the WCF request. This shall include efforts made to minimize the visual impact of the antennas and equipment cabinets.
- ☑ Site plan indicating extent and location of antenna additions, buildings and other structures, including all equipment cabinets. Site plan shall indicate dimensions of existing and proposed structures, dimensions of existing and proposed ROW, setbacks and sight distance visibility triangles. (2) 24" x 36" folded
- ☑ Elevation drawings of new additions, buildings, screening, poles or other changes. Colors and materials shall be noted. (2) 24" x 36" folded
- ☑ Site Photographs
- ☑ Photo simulations of proposed WCF. In ESL areas, include photosim from nearest single family lots.
- ☑ Owner authorization letter
- ☐ Property Owner Association Input
- ☑ Map of service area for proposed WCF
- ☑ Map showing other existing or planned WCF's that will be used by Provider making the application. (describe height, mounting style & number of antennas on WCF)
- ☑ FCC RF report verifying that at its maximum load, including cumulative effects of multiple facilities, the WCF meets or exceeds FCC radio frequency safety standards.
- ☑ Community Notification Documentation. Notify all property owners within 750 feet of site. Submit names and addresses of all properties that were notified, submit a copy of the letter that was sent and the date that letter was mailed. Letters shall be mailed at least 15 days prior to submittal.
- ☐ Landscape and irrigation plan indicating location, size, type and quantity of plant palette. (2) 24" x 36" folded.
- ☑ **Schedule a meeting with Keith Niederer 480-312-2953 when ready to submit this application.**
- ☐ Other: _____

Please Note: After staff review, it may be determined that this request requires approval by the Development Review Board through the public hearing process. If approved at staff level, this approval expires twelve (12) months from date of approval if a permit is required but has not been issued.

Applicant Signature _____ Date 10/10/2012

Official Use Only:

Submittal Date: 10-10-12 City Staff Signature: _____

Planning, Neighborhood & Transportation Division
7447 E Indian School Road, Suite 105, Scottsdale, AZ 85251 • Phone: 480-312-7000 • Fax: 480-312-7800

City of Scottsdale Cash Transmittal

91308

Received From :
General Dynamics Information Technology
6664 S DATELAND DR
TEMPE, AZ 85283
480-296-7449

Bill To :
General Dynamics Information Technology
6664 S DATELAND DR
TEMPE, AZ 85283
480-296-7449

Reference #	398-pa-2012			**Issued Date**	10/10/2012
Address	Add emergency back up generator to PHO Scottsdale Stadium, Four Corn			**Paid Date**	10/10/2012
Subdivision				**Payment Type**	CHECK
Marketing Name		**Lot Number**		**Cost Center**	
MCR		**County**	No	**Metes/Bounds**	No
APN		**Gross Lot Area**	0	**Water Zone**	
Owner Information		**NAOS Lot Area**	0	**Water Type**	
		Net Lot Area	0	**Sewer Type**	
		Number of Units	1	**Meter Size**	
		Density		**QS**	

Code	Description	Additional	Qty	Amount	Account Number
3232	WIRELESS COMM FACILITY (CASE)	PHO Scottsdale Stadium, Four Corners, Verison PHO Darwin	3	$1,380.00	100-21300-44221

SIGNED BY CRYSTAL POWELL ON 10/10/2012

Total Amount **$1,380.00**

(When a credit card is used as payment I agree to pay the above total amount according to the Card Issuer Agreement.)

TO HAVE WATER METER SET - CALL 480-312-5650 AND REFER TO TRANSMITTAL # 91308

GENERAL DYNAMICS
Wireless Services

SITE: SCOTTSDALE STADIUM
GENERATOR
SCOTTSDALE, AZ 85260

GENERAL DYNAMICS
Wireless Services

SITE: SCOTTSDALE STADIUM
GENERATOR
SCOTTSDALE, AZ 85260

September 19, 2012

Subject: **Project Narrative.**
City of Scottsdale
Facility Addresses:

US's largest wireless provider, Verizon Wireless, has multiple communications facilities located within the City of Scottsdale's jurisdiction that need to be modified.

In order to improve its network's response to commercial power failure or disaster situations, Verizon is hereby requesting the City's review for the addition of one emergency diesel back-up power generator, to its above named existing site.

This activity will involve pouring a 4x8' concrete slab base, connecting the proposed 48Kw Generac self-contained generators with built-in 210 gallons tank) to the existing utility switches, add an automatic transfer switch, all without any tower modification (see attached submitted drawings for reference).

Number of generators: 1. Size of generator: 4 x 10 x 6 high

Hours of operation: Test Cycle 1 x per week for 30 minutes. Days of operation: **emergency only.**

Consistent with the agreements governing this site, Verizon has current active lease agreements with the property owner, as demonstrated separately.

Verizon appreciates your assistance in the continuing operation of this wireless communications location.

Thank you for your attention to this matter. Please call me at 480.296.7465 should you have any further information on this project.

Sincerely,

Alexander Wilson-Desbois
General Dynamics Wireless Services
6664 S. Dateland Suite B, Tempe, AZ 85283
alexander.wilson-desbois@gdit.com

GENERAC®

SD048
4.5 Liter Level 2A

Octave Band Sound Data SD048 Verizon

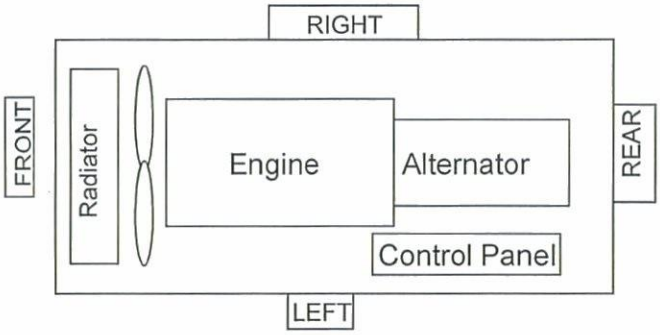
Test Date	6/14/2011	**Engine Firing Frequency**	60
Test Request #	A-2-3768T11	**Alt Fan Frequency**	480
Generator Model	SD048	**Cooling Fan Frequency**	416
Enclosure	Level 2 A Verizon	**Test Conditions**	Sunny
Unit Dimensions		**Temp ° F**	74
Engine	4.5 Liter Diesel	**Barometric Pres**	30.72
Alternator	60 kW 390 mm	**Wind Speed mph**	2.6
Engine Speed	1800	**Muffler**	Standard
Test Location	Waukesha	**Fuel**	#2 Diesel
Instrument	TES1358		

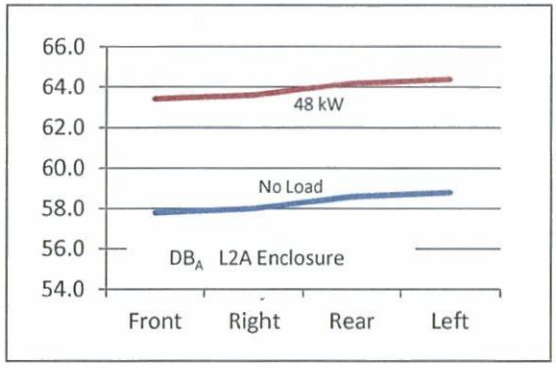
Test Load: **0 kW** 240 Volt Distance 7 Meters

MICROPHONE LOCATION	OCTAVE BAND CENTER FREQUENCY									
	31.5	*63*	*125*	*250*	*500*	*1000*	*2000*	*4000*	*8000*	dB_A
FRONT	21.7	49	47	47	48.9	43.9	42.2	40.3	30.9	57.8
RIGHT	23.2	49.1	49.6	46.3	48.8	43.4	44	38.5	31.6	58.0
REAR	23.5	51.2	48.3	48.9	53.2	41.9	42.9	41.9	29.8	58.6
LEFT	18.1	53.1	48.5	46.7	49.7	41.9	40.5	41.9	32.7	58.8
Average	21.6	50.6	48.4	47.2	50.2	42.8	42.4	40.7	31.3	58.3

Test Load: **48.2 kW** 240 Volt Distance 7 Meters

MICROPHONE LOCATION	OCTAVE BAND CENTER FREQUENCY									
	31.5	*63*	*125*	*250*	*500*	*1000*	*2000*	*4000*	*8000*	dB_A
FRONT	26.1	58.9	61.7	48	56.1	45	43.1	40.4	35	63.4
RIGHT	27.3	60.4	61.6	53	52.4	45.2	46.3	40.7	34.3	63.6
REAR	25.7	61.9	61	50	54.2	42.9	43.6	42.6	32.2	64.2
LEFT	21.2	61.8	62	52.4	53.2	43.8	43.4	44.1	33.8	64.4
Average	25.1	60.8	61.6	50.9	54	44.2	44.1	42	33.8	63.9





1. All positions at 23 feet (7 meters) from side faces of generator set.
2. Test conducted on a 100 foot diameter asphault surface.
3. Data subject to change without notice

MATERIAL SAFETY DATA SHEET

Diesel Fuel (All Types) MSDS No. 9909

EMERGENCY OVERVIEW
CAUTION!
OSHA/NFPA COMBUSTIBLE LIQUID - SLIGHT TO MODERATE IRRITANT
EFFECTS CENTRAL NERVOUS SYSTEM
HARMFUL OR FATAL IF SWALLOWED

Moderate fire hazard. Avoid breathing vapors or mists. May cause dizziness and drowsiness. May cause moderate eye irritation and skin irritation (rash). Long-term, repeated exposure may cause skin cancer.
If ingested, do NOT induce vomiting, as this may cause chemical pneumonia (fluid in the lungs).

NFPA 704 (Section 16)

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Hess Corporation
1 Hess Plaza
Woodbridge, NJ 07095-0961

EMERGENCY TELEPHONE NUMBER (24 hrs): **CHEMTREC (800) 424-9300**
COMPANY CONTACT (business hours): Corporate Safety (732) 750-6000
MSDS INTERNET WEBSITE: www.hess.com (See Environment, Health, Safety & Social Responsibility)

SYNONYMS: Ultra Low Sulfur Diesel (ULSD); Low Sulfur Diesel; Motor Vehicle Diesel Fuel; Diesel Fuel #2; Dyed Diesel Fuel; Non-Road, Locomotive and Marine Diesel Fuel; Tax-exempt Diesel Fuel

See Section 16 for abbreviations and acronyms.

2. COMPOSITION and CHEMICAL INFORMATION ON INGREDIENTS

INGREDIENT NAME (CAS No.)	CONCENTRATION PERCENT BY WEIGHT
Diesel Fuel (68476-34-6)	100
Naphthalene (91-20-3)	Typically < 0.01

A complex mixture of hydrocarbons with carbon numbers in the range C9 and higher. Diesel fuel may be dyed (red) for tax purposes. May contain a multifunctional additive.

3. HAZARDS IDENTIFICATION

EYES
Contact with liquid or vapor may cause mild irritation.

SKIN
May cause skin irritation with prolonged or repeated contact. Practically non-toxic if absorbed following acute (single) exposure. Liquid may be absorbed through the skin in toxic amounts if large areas of skin are repeatedly exposed.

INGESTION
The major health threat of ingestion occurs from the danger of aspiration (breathing) of liquid drops into the lungs, particularly from vomiting. Aspiration may result in chemical pneumonia (fluid in the lungs), severe lung damage, respiratory failure and even death.

Ingestion may cause gastrointestinal disturbances, including irritation, nausea, vomiting and diarrhea, and central nervous system (brain) effects similar to alcohol intoxication. In severe cases, tremors, convulsions, loss of consciousness, coma, respiratory arrest, and death may occur.

INHALATION
Excessive exposure may cause irritations to the nose, throat, lungs and respiratory tract. Central nervous system (brain) effects may include headache, dizziness, loss of balance and coordination, unconsciousness, coma, respiratory failure, and death.

WARNING: the burning of any hydrocarbon as a fuel in an area without adequate ventilation may result in hazardous levels of combustion products, including carbon monoxide, and inadequate oxygen levels, which may cause unconsciousness, suffocation, and death.

CHRONIC EFFECTS and CARCINOGENICITY
Similar products produced skin cancer and systemic toxicity in laboratory animals following repeated applications. The significance of these results to human exposures has not been determined - see Section 11 Toxicological Information.

IARC classifies whole diesel fuel exhaust particulates as probably carcinogenic to humans (Group 2A). NIOSH regards whole diesel fuel exhaust particulates as a potential cause of occupational lung cancer based on animal studies and limited evidence in humans.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE
Irritation from skin exposure may aggravate existing open wounds, skin disorders, and dermatitis (rash).

4. FIRST AID MEASURES

EYES
In case of contact with eyes, immediately flush with clean, low-pressure water for at least 15 min. Hold eyelids open to ensure adequate flushing. Seek medical attention.

SKIN
Remove contaminated clothing. Wash contaminated areas thoroughly with soap and water or waterless hand cleanser. Obtain medical attention if irritation or redness develops.

INGESTION
DO NOT INDUCE VOMITING. Do not give liquids. Obtain immediate medical attention. If spontaneous vomiting occurs, lean victim forward to reduce the risk of aspiration. Monitor for breathing difficulties. Small amounts of material which enter the mouth should be rinsed out until the taste is dissipated.

INHALATION
Remove person to fresh air. If person is not breathing provide artificial respiration. If necessary, provide additional oxygen once breathing is restored if trained to do so. Seek medical attention immediately.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:

FLASH POINT:	> 125 °F (> 52 °C) minimum PMCC
AUTOIGNITION POINT:	494 °F (257 °C)
OSHA/NFPA FLAMMABILITY CLASS:	2 (COMBUSTIBLE)
LOWER EXPLOSIVE LIMIT (%):	0.6
UPPER EXPLOSIVE LIMIT (%):	7.5

FIRE AND EXPLOSION HAZARDS
Vapors may be ignited rapidly when exposed to heat, spark, open flame or other source of ignition. When mixed with air and exposed to an ignition source, flammable vapors can burn in the open or explode in confined spaces. Being heavier than air, vapors may travel long distances to an ignition source and flash back. Runoff to sewer may cause fire or explosion hazard.

EXTINGUISHING MEDIA
SMALL FIRES: Any extinguisher suitable for Class B fires, dry chemical, CO2, water spray, fire fighting foam, or Halon.

LARGE FIRES: Water spray, fog or fire fighting foam. Water may be ineffective for fighting the fire, but may be used to cool fire-exposed containers.

FIRE FIGHTING INSTRUCTIONS

Small fires in the incipient (beginning) stage may typically be extinguished using handheld portable fire extinguishers and other fire fighting equipment.

Firefighting activities that may result in potential exposure to high heat, smoke or toxic by-products of combustion should require NIOSH/MSHA- approved pressure-demand self-contained breathing apparatus with full facepiece and full protective clothing.

Isolate area around container involved in fire. Cool tanks, shells, and containers exposed to fire and excessive heat with water. For massive fires the use of unmanned hose holders or monitor nozzles may be advantageous to further minimize personnel exposure. Major fires may require withdrawal, allowing the tank to burn. Large storage tank fires typically require specially trained personnel and equipment to extinguish the fire, often including the need for properly applied fire fighting foam.

See Section 16 for the NFPA 704 Hazard Rating.

6. ACCIDENTAL RELEASE MEASURES

ACTIVATE FACILITY'S SPILL CONTINGENCY OR EMERGENCY RESPONSE PLAN.

Evacuate nonessential personnel and remove or secure all ignition sources. Consider wind direction; stay upwind and uphill, if possible. Evaluate the direction of product travel, diking, sewers, etc. to confirm spill areas. Spills may infiltrate subsurface soil and groundwater; professional assistance may be necessary to determine the extent of subsurface impact.

Carefully contain and stop the source of the spill, if safe to do so. Protect bodies of water by diking, absorbents, or absorbent boom, if possible. Do not flush down sewer or drainage systems, unless system is designed and permitted to handle such material. The use of fire fighting foam may be useful in certain situations to reduce vapors. The proper use of water spray may effectively disperse product vapors or the liquid itself, preventing contact with ignition sources or areas/equipment that require protection.

Take up with sand or other oil absorbing materials. Carefully shovel, scoop or sweep up into a waste container for reclamation or disposal - caution, flammable vapors may accumulate in closed containers. Response and clean-up crews must be properly trained and must utilize proper protective equipment (see Section 8).

7. HANDLING and STORAGE

HANDLING PRECAUTIONS

Handle as a combustible liquid. Keep away from heat, sparks, and open flame! Electrical equipment should be approved for classified area. Bond and ground containers during product transfer to reduce the possibility of static-initiated fire or explosion.

Diesel fuel, and in particular low and ultra low sulfur diesel fuel, has the capability of accumulating a static electrical charge of sufficient energy to cause a fire/explosion in the presence of lower flashpoint products such as gasoline. The accumulation of such a static charge occurs as the diesel flows through pipelines, filters, nozzles and various work tasks such as tank/container filling, splash loading, tank cleaning; product sampling; tank gauging; cleaning, mixing, vacuum truck operations, switch loading, and product agitation. There is a greater potential for static charge accumulation in cold temperature, low humidity conditions.

Documents such as 29 CFR OSHA 1910.106 "Flammable and Combustible Liquids, NFPA 77 Recommended Practice on Static Electricity, API 2003 "Protection Against Ignitions Arising Out of Static, Lightning, and Stray Currents and ASTM D4865 "Standard Guide for Generation and Dissipation of Static

Electricity in Petroleum Fuel Systems" address special precautions and design requirements involving loading rates, grounding, bonding, filter installation, conductivity additives and especially the hazards associated with "switch loading." ["Switch Loading" is when a higher flash point product (such as diesel) is loaded into tanks previously containing a low flash point product (such as gasoline) and the electrical charge generated during loading of the diesel results in a static ignition of the vapor from the previous cargo (gasoline).]

Note: When conductivity additives are used or are necessary the product should achieve 25 picosiemens/meter or greater at the handling temperature.

STORAGE PRECAUTIONS

Keep away from flame, sparks, excessive temperatures and open flame. Use approved vented containers. Keep containers closed and clearly labeled. Empty product containers or vessels may contain explosive vapors. Do not pressurize, cut, heat, weld or expose such containers to sources of ignition.

Store in a well-ventilated area. This storage area should comply with NFPA 30 "Flammable and Combustible Liquid Code". Avoid storage near incompatible materials. The cleaning of tanks previously containing this product should follow API Recommended Practice (RP) 2013 "Cleaning Mobile Tanks In Flammable and Combustible Liquid Service" and API RP 2015 "Cleaning Petroleum Storage Tanks".

WORK/HYGIENIC PRACTICES

Emergency eye wash capability should be available in the near proximity to operations presenting a potential splash exposure. Use good personal hygiene practices. Avoid repeated and/or prolonged skin exposure. Wash hands before eating, drinking, smoking, or using toilet facilities. Do not use as a cleaning solvent on the skin. Do not use solvents or harsh abrasive skin cleaners for washing this product from exposed skin areas. Waterless hand cleaners are effective. Promptly remove contaminated clothing and launder before reuse. Use care when laundering to prevent the formation of flammable vapors which could ignite via washer or dryer. Consider the need to discard contaminated leather shoes and gloves.

8. EXPOSURE CONTROLS and PERSONAL PROTECTION

EXPOSURE LIMITS

Components (CAS No.)	Source	Exposure Limits TWA/STEL	Note
Diesel Fuel: (68476-34-6)	OSHA	5 mg/m, as mineral oil mist	
	ACGIH	100 mg/m^3 (as totally hydrocarbon vapor) TWA	A3, skin
Naphthalene (91-20-3)	OSHA	10 ppm TWA	
	ACGIH	10 ppm TWA / 15 ppm STEL	A4, Skin

ENGINEERING CONTROLS

Use adequate ventilation to keep vapor concentrations of this product below occupational exposure and flammability limits, particularly in confined spaces.

EYE/FACE PROTECTION

Safety glasses or goggles are recommended where there is a possibility of splashing or spraying.

SKIN PROTECTION

Gloves constructed of nitrile, neoprene, or PVC are recommended. Chemical protective clothing such as of E.I. DuPont TyChem®, Saranex® or equivalent recommended based on degree of exposure. Note: The resistance of specific material may vary from product to product as well as with degree of exposure. Consult manufacturer specifications for further information.

RESPIRATORY PROTECTION
A NIOSH/MSHA-approved air-purifying respirator with organic vapor cartridges or canister may be permissible under certain circumstances where airborne concentrations are or may be expected to exceed exposure limits or for odor or irritation. Protection provided by air-purifying respirators is limited. Refer to OSHA 29 CFR 1910.134, NIOSH Respirator Decision Logic, and the manufacturer for additional guidance on respiratory protection selection.

Use a positive pressure, air-supplied respirator if there is a potential for uncontrolled release, exposure levels are not known, in oxygen-deficient atmospheres, or any other circumstance where an air-purifying respirator may not provide adequate protection.

9. PHYSICAL and CHEMICAL PROPERTIES

APPEARANCE
Clear, straw-yellow liquid. Dyed fuel oil will be red or reddish-colored.

ODOR
Mild, petroleum distillate odor

BASIC PHYSICAL PROPERTIES

BOILING RANGE:	320 to 690 oF (160 to 366 °C)
VAPOR PRESSURE:	0.009 psia @ 70 °F (21 °C)
VAPOR DENSITY (air = 1):	> 1.0
SPECIFIC GRAVITY (H_2O = 1):	0.83 to 0.88 @ 60 °F (16 °C)
PERCENT VOLATILES:	100 %
EVAPORATION RATE:	Slow; varies with conditions
SOLUBILITY (H_2O):	Negligible

10. STABILITY and REACTIVITY

STABILITY: Stable. Hazardous polymerization will not occur.

CONDITIONS TO AVOID and INCOMPATIBLE MATERIALS
Avoid high temperatures, open flames, sparks, welding, smoking and other ignition sources. Keep away from strong oxidizers; Viton ®; Fluorel ®

HAZARDOUS DECOMPOSITION PRODUCTS
Carbon monoxide, carbon dioxide and non-combusted hydrocarbons (smoke).

11. TOXICOLOGICAL PROPERTIES

ACUTE TOXICITY
Acute dermal LD50 (rabbits): > 5 ml/kg
Acute oral LD50 (rats): 9 ml/kg
Primary dermal irritation: extremely irritating (rabbits)
Draize eye irritation: non-irritating (rabbits)
Guinea pig sensitization: negative

CHRONIC EFFECTS AND CARCINOGENICITY
Carcinogenic: OSHA: NO IARC: NO NTP: NO ACGIH: A3

Studies have shown that similar products produce skin tumors in laboratory animals following repeated applications without washing or removal. The significance of this finding to human exposure has not been determined. Other studies with active skin carcinogens have shown that washing the animal's skin with soap and water between applications reduced tumor formation.

MUTAGENICITY (genetic effects)
This material has been positive in a mutagenicity study.

12. ECOLOGICAL INFORMATION

Keep out of sewers, drainage areas, and waterways. Report spills and releases, as applicable, under Federal and State regulations.

13. DISPOSAL CONSIDERATIONS

Consult federal, state and local waste regulations to determine appropriate disposal options.

14. TRANSPORTATION INFORMATION

PROPER SHIPPING NAME:	Diesel Fuel	Placard (International Only):
HAZARD CLASS and PACKING GROUP:	3, PG III	
DOT IDENTIFICATION NUMBER:	NA 1993 (Domestic) UN 1202 (International)	
DOT SHIPPING LABEL:	None	

Use Combustible Placard if shipping in bulk domestically

15. REGULATORY INFORMATION

U.S. FEDERAL, STATE, and LOCAL REGULATORY INFORMATION

This product and its constituents listed herein are on the EPA TSCA Inventory. Any spill or uncontrolled release of this product, including any substantial threat of release, may be subject to federal, state and/or local reporting requirements. This product and/or its constituents may also be subject to other regulations at the state and/or local level. Consult those regulations applicable to your facility/operation.

CLEAN WATER ACT (OIL SPILLS)

Any spill or release of this product to "navigable waters" (essentially any surface water, including certain wetlands) or adjoining shorelines sufficient to cause a visible sheen or deposit of a sludge or emulsion must be reported immediately to the National Response Center (1-800-424-8802) as required by U.S. Federal Law. Also contact appropriate state and local regulatory agencies as required.

CERCLA SECTION 103 and SARA SECTION 304 (RELEASE TO THE ENVIRONMENT)

The CERCLA definition of hazardous substances contains a "petroleum exclusion" clause which exempts crude oil, refined, and unrefined petroleum products and any indigenous components of such. However, other federal reporting requirements (e.g., SARA Section 304 as well as the Clean Water Act if the spill occurs on navigable waters) may still apply.

SARA SECTION 311/312 - HAZARD CLASSES

ACUTE HEALTH	CHRONIC HEALTH	FIRE	SUDDEN RELEASE OF PRESSURE	REACTIVE
X	X	X	--	--

SARA SECTION 313 - SUPPLIER NOTIFICATION

This product may contain listed chemicals below the *de minimis* levels which therefore are not subject to the supplier notification requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act (EPCRA) of 1986 and of 40 CFR 372. If you may be required to report releases of chemicals listed in 40 CFR 372.28, you may contact Hess Corporate Safety if you require additional information regarding this product.

CALIFORNIA PROPOSITON 65 LIST OF CHEMICALS

This product contains the following chemicals that are included on the Proposition 65 "List of Chemicals" required by the California Safe Drinking Water and Toxic Enforcement Act of 1986:

INGREDIENT NAME (CAS NUMBER)	Date Listed
Diesel Engine Exhaust (no CAS Number listed)	10/01/1990

CANADIAN REGULATORY INFORMATION (WHMIS)

Class B, Division 3 (Combustible Liquid) and Class D, Division 2, Subdivision B (Toxic by other means)

MATERIAL SAFETY DATA SHEET

Diesel Fuel (All Types) *MSDS No. 9909*

16. OTHER INFORMATION

NFPA® HAZARD RATING

HEALTH:	0
FIRE:	2
REACTIVITY:	0

Refer to NFPA 704 "Identification of the Fire Hazards of Materials" for further information

HMIS® HAZARD RATING

HEALTH:	1 *	* Chronic
FIRE:	2	
PHYSICAL:	0	

SUPERSEDES MSDS DATED: 02/28/2001

ABBREVIATIONS:

AP = Approximately < = Less than > = Greater than
N/A = Not Applicable N/D = Not Determined ppm = parts per million

ACRONYMS:

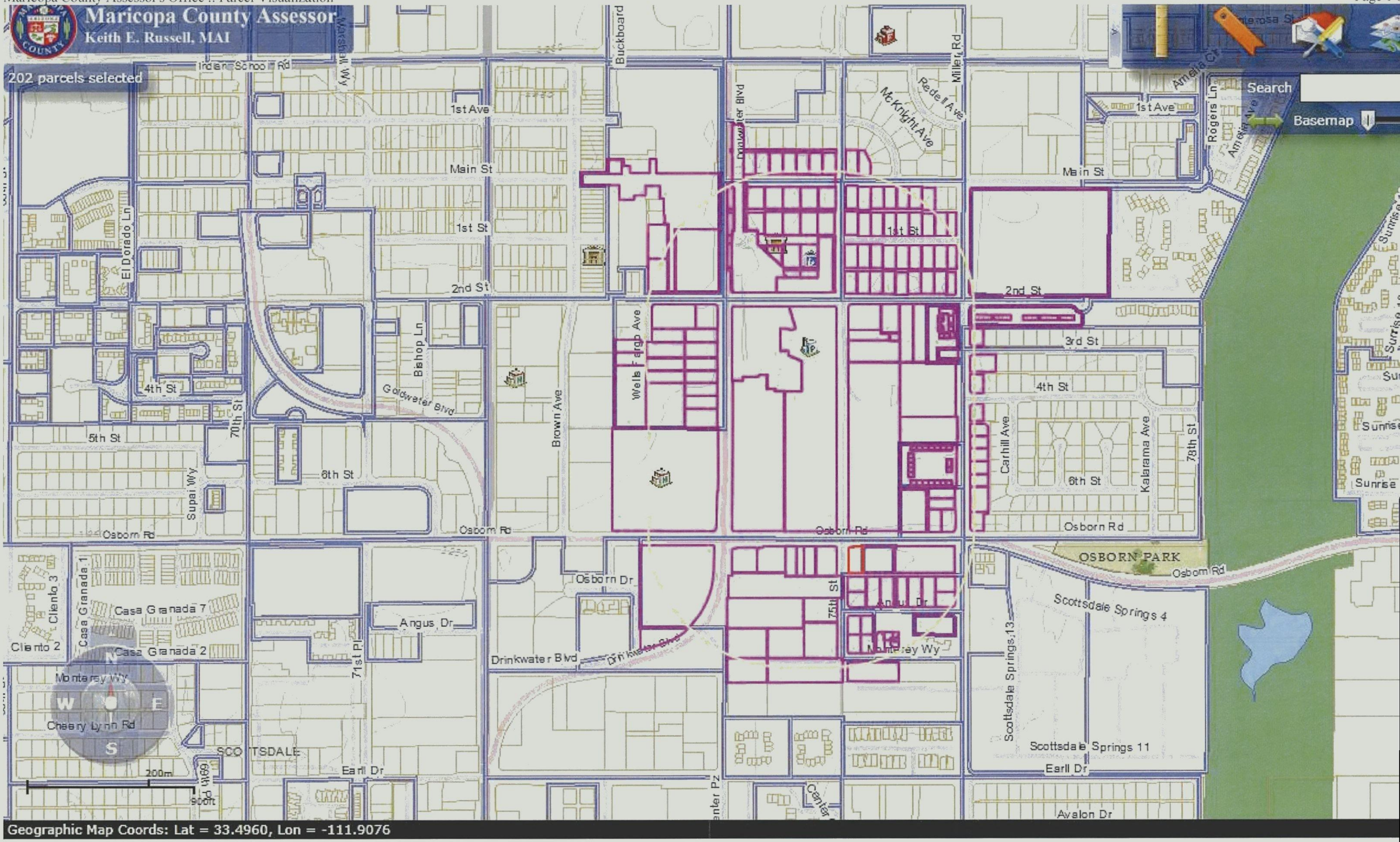
ACGIH	American Conference of Governmental Industrial Hygienists
AIHA	American Industrial Hygiene Association
ANSI	American National Standards Institute (212) 642-4900
API	American Petroleum Institute (202) 682-8000
CERCLA	Comprehensive Emergency Response, Compensation, and Liability Act
DOT	U.S. Department of Transportation [General info: (800) 467-4922]
EPA	U.S. Environmental Protection Agency
HMIS	Hazardous Materials Information System
IARC	International Agency For Research On Cancer
MSHA	Mine Safety and Health Administration
NFPA	National Fire Protection Association (617)770-3000
NIOSH	National Institute of Occupational Safety and Health
NOIC	Notice of Intended Change (proposed change to ACGIH TLV)
NTP	National Toxicology Program
OPA	Oil Pollution Act of 1990
OSHA	U.S. Occupational Safety & Health Administration
PEL	Permissible Exposure Limit (OSHA)
RCRA	Resource Conservation and Recovery Act
REL	Recommended Exposure Limit (NIOSH)
SARA	Superfund Amendments and Reauthorization Act of 1986 Title III
SCBA	Self-Contained Breathing Apparatus
SPCC	Spill Prevention, Control, and Countermeasures
STEL	Short-Term Exposure Limit (generally 15 minutes)
TLV	Threshold Limit Value (ACGIH)
TSCA	Toxic Substances Control Act
TWA	Time Weighted Average (8 hr.)
WEEL	Workplace Environmental Exposure Level (AIHA)
WHMIS	Canadian Workplace Hazardous Materials Information System

DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES

Information presented herein has been compiled from sources considered to be dependable, and is accurate and reliable to the best of our knowledge and belief, but is not guaranteed to be so. Since conditions of use are beyond our control, we make no warranties, expressed or implied, except those that may be contained in our written contract of sale or acknowledgment.

Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material, even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in their use of the material.


IN CASE OF
EMERGENCY
CALL
800-264-6620
DANGER
DIESEL FUEL
NO SMOKING
NO OPEN FLAMES
DIESEL
FUEL
ONLY
52
GALLON
CAPACIT
2012/08/24



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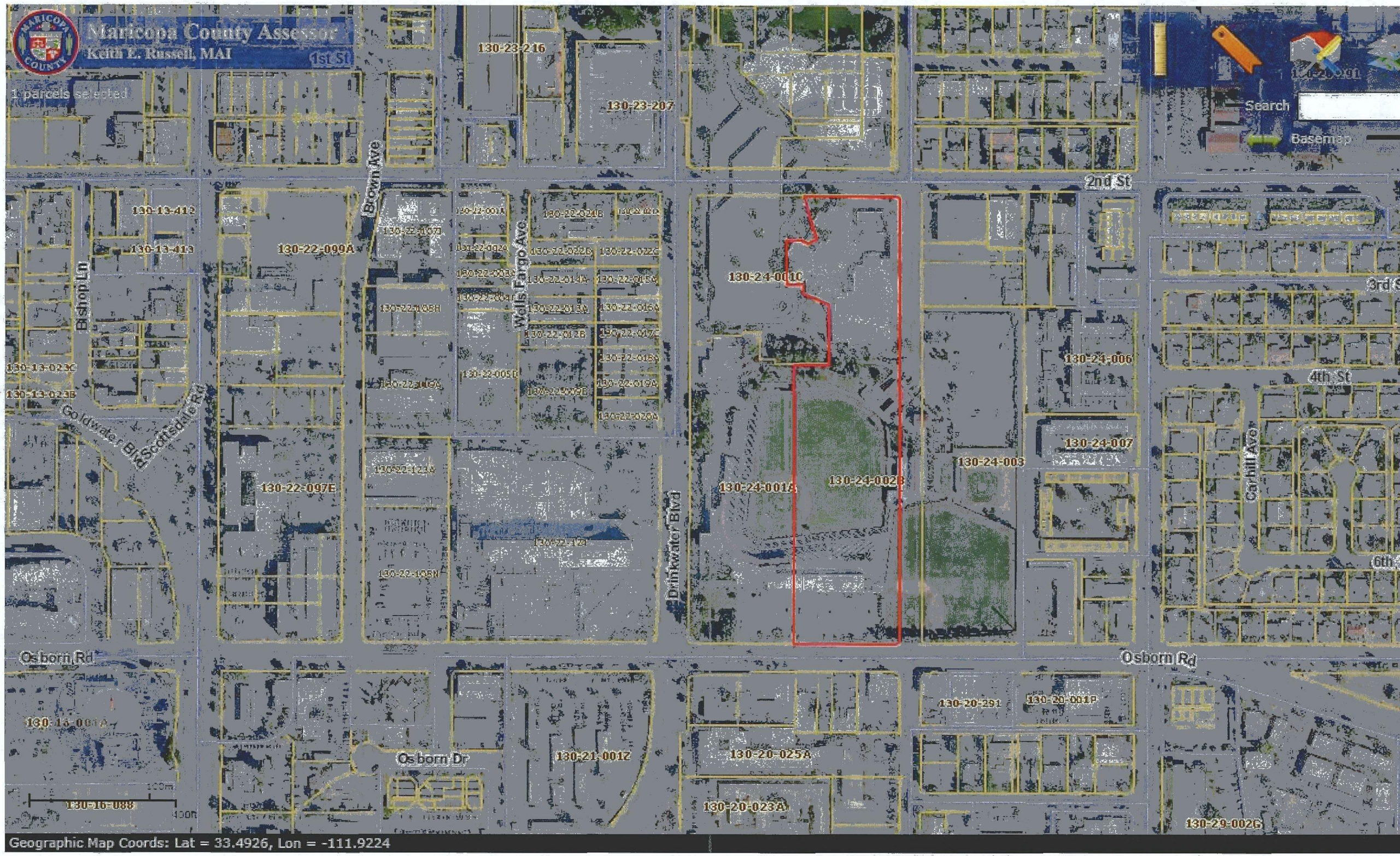
Maricopa County Assessor
Keith E. Russell, MAI
1 parcels selected
Search
Basemap
1st St
2nd St
3rd St
4th St
6th
Brown Ave
Wells Fargo Ave
Bishop Ln
Goldwater Blvd
Scottsdale Rd
Drinkwater Blvd
Corhill Ave
Osborn Rd
Osborn Dr
130-23-216
130-23-207
130-13-412
130-13-413
130-22-099A
130-22-097E
130-24-011C
130-24-001A
130-24-002B
130-24-006
130-24-007
130-24-003
130-20-291
130-20-001P
130-20-025A
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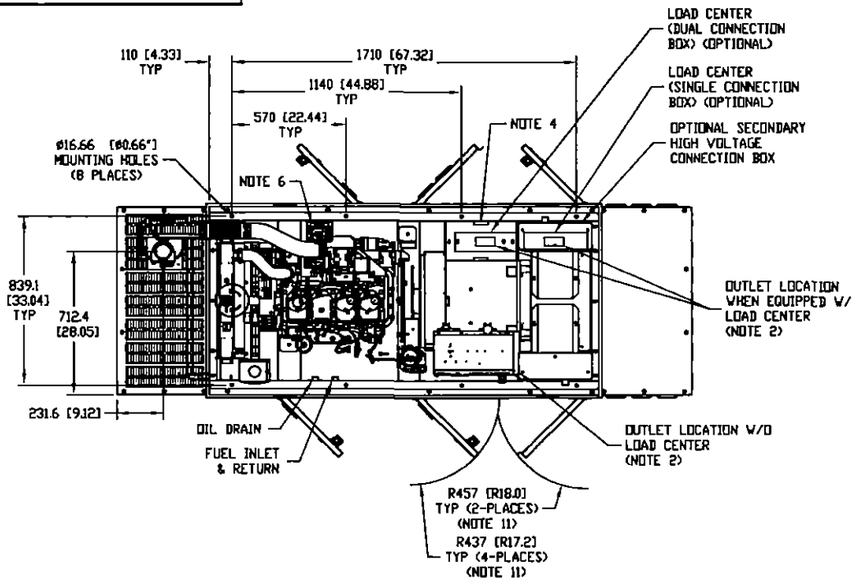
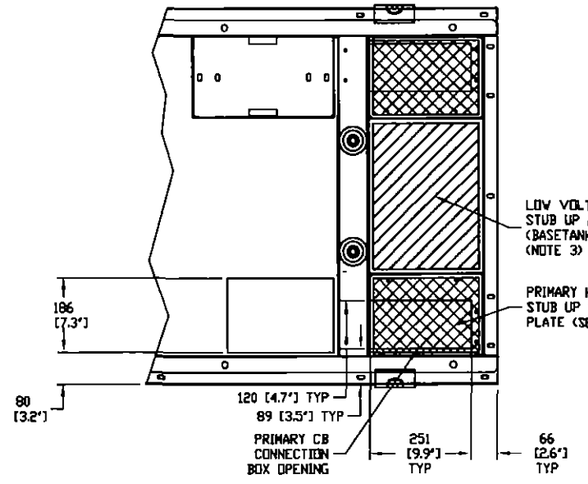
130-21-001Z
130-29-002G
Geographic Map Coords: Lat = 33.4926, Lon = -111.9224

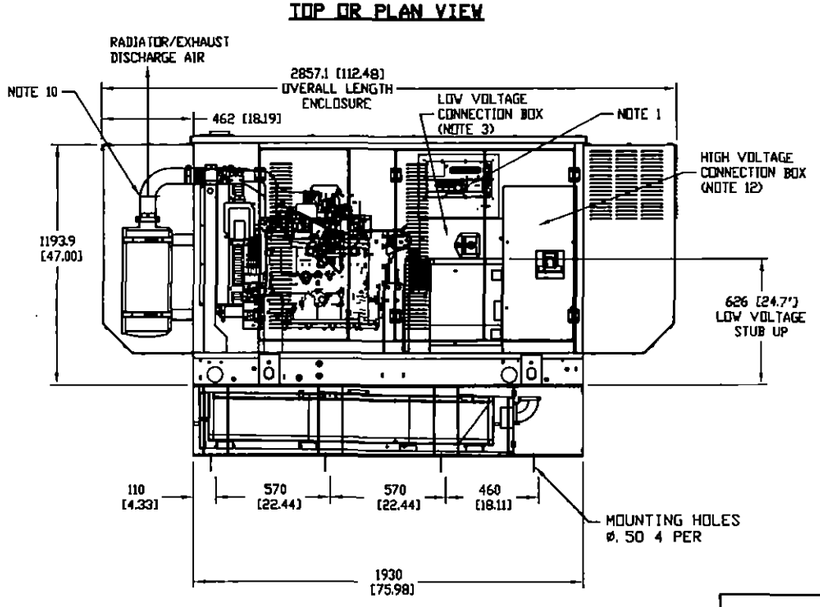
0J4311B-VZW



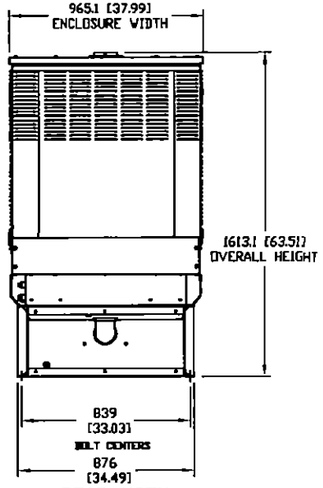
TOP OR PLAN VIEW



STUB-UP AREA DETAILED VIEW



LEFT SIDE VIEW



REAR VIEW

RECOMMENDED ELECTRICAL STUB-UPS (SEE DETAILED VIEW & TOP VIEW)	
(HIGH VOLTAGE STUB UP) AC LOAD LEAD CONDUIT FOR PERMANENT MAGNET EXCITATION CONNECTION BOX	
(LOW VOLTAGE STUB UP) TWO DIFFERENT LOCATIONS DEPENDING ON MOUNT LOCATION. -SURFACE MOUNT -BASETANK MOUNT	

NOTE:

1. CONTROL PANEL, (OPTIONAL BATTERY CHARGER INSIDE)
2. 120V, 20A GFCI & 250V, 15A OUTLET (OPTIONAL)
3. CONNECTION POINTS FOR CONTROL WIRES PROVIDED IN THE LOW VOLTAGE CONNECTION BOX (USE LOW VOLTAGE STUB UP AREA)
4. BATTERY (12 VOLT NEGATIVE GROUND SYSTEM)
5. MAIN LINE CIRCUIT BREAKER (MLCB), AC LOAD LEADS CONNECT DIRECTLY TO MLCB. (MLCB HEIGHT MAY VARY WITH CB SELECTION)
6. OPTIONAL BLOCK HEATER
7. FUEL LINES ARE PLUMBED TO FRAME FOR UNITS WITH NO BASE TANK. FUEL LINES ARE PLUMBED DIRECTLY TO BASE TANK WHEN SO EQUIPPED
8. CENTER OF GRAVITY AND WEIGHT MAY SHIFT SLIGHTLY DUE TO UNIT OPTIONS
9. IF GENSET IS TO BE INSTALLED ON A BASETANK REFER TO BASETANK INSTALL FOR MOUNTING FOOTPRINT AND STUB UP INFORMATION.
   NOTE: STUB UP AREA MAY NOT BE THE SAME FOR BOTH GENSET AND BASETANK.
10. ENGINE SERVICE CONNECTIONS:
    FUEL INLET = 1/2" NPT COUPLING
    FUEL RETURN = 1/2" NPT COUPLING
    OIL DRAIN = 1/2" NPT COUPLING
    EXHAUST OUTLET = 3" O.D. MUFFLER
11. DOORS MUST BE ABLE TO OPEN AT LEAST 90° TO BE REMOVED.
12. AUXILIARY AC CONNECTION FOR UNIT OPTIONS ARE LOCATED IN HIGH VOLTAGE CONNECTION BOX, UNLESS AN OPTIONAL LOAD CENTER IS INSTALLED
13. BOTTOM OF GENERATOR SET MUST BE CLOSED TO PREVENT PEST INTRUSION AND RECIRULATION OF DISCHARGE AIR AND/OR IMPROPER COOLING AIR FLOW.
14. GENERATOR SET MUST BE INSTALLED SUCH THAT DISCHARGE AIR IS NOT RECIRCULATED.
15. CIRCUIT BREAKER
    -AC LOAD LEADS CONNECT DIRECTLY TO BOTTOM OF BREAKER.
    -REFER TO LUG SIZING CHART AVAILABLE ON GEN-CONNECT.

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INSTALLATION DRAWING

SD048 W/ SOUND ATTENUATED

LVL1 ENCLOSURE AND U.L. 142

52 GALLON FUEL TANK BASE

ISSUE DATE 2/17/11

GENERAC POWER SYSTEMS
Waukesha
P.O. BOX 8
WAUKESHA, WIS. 53187

FILE NAME	0J4311B-VZW.DWG	SIZE	B
SCALE	1-30	FIRST USE	VZW ARIZONA
DWG NO.	0J4311B-VZW	REV	B