

November 21, 2025

Contractors Day

Presented by the Petroleum Storage Tank
Division – Technical Department



OKLAHOMA
Corporation
Commission



AGENDA



Morning

Intro
Regulatory Overview
ORBCA Overview

Lunch

11:30 am - 1:00 pm

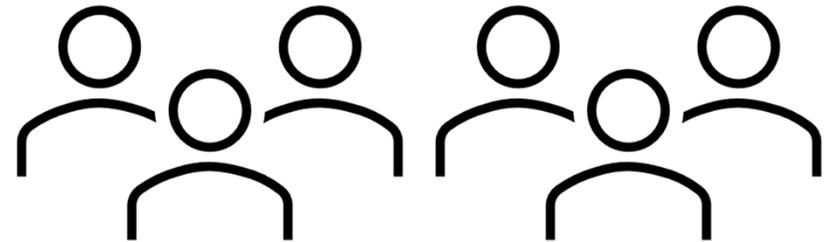
Afternoon

OCC Brownfields
IF Administrator
PST Corrective Action Portal
PST Finder App
Updates



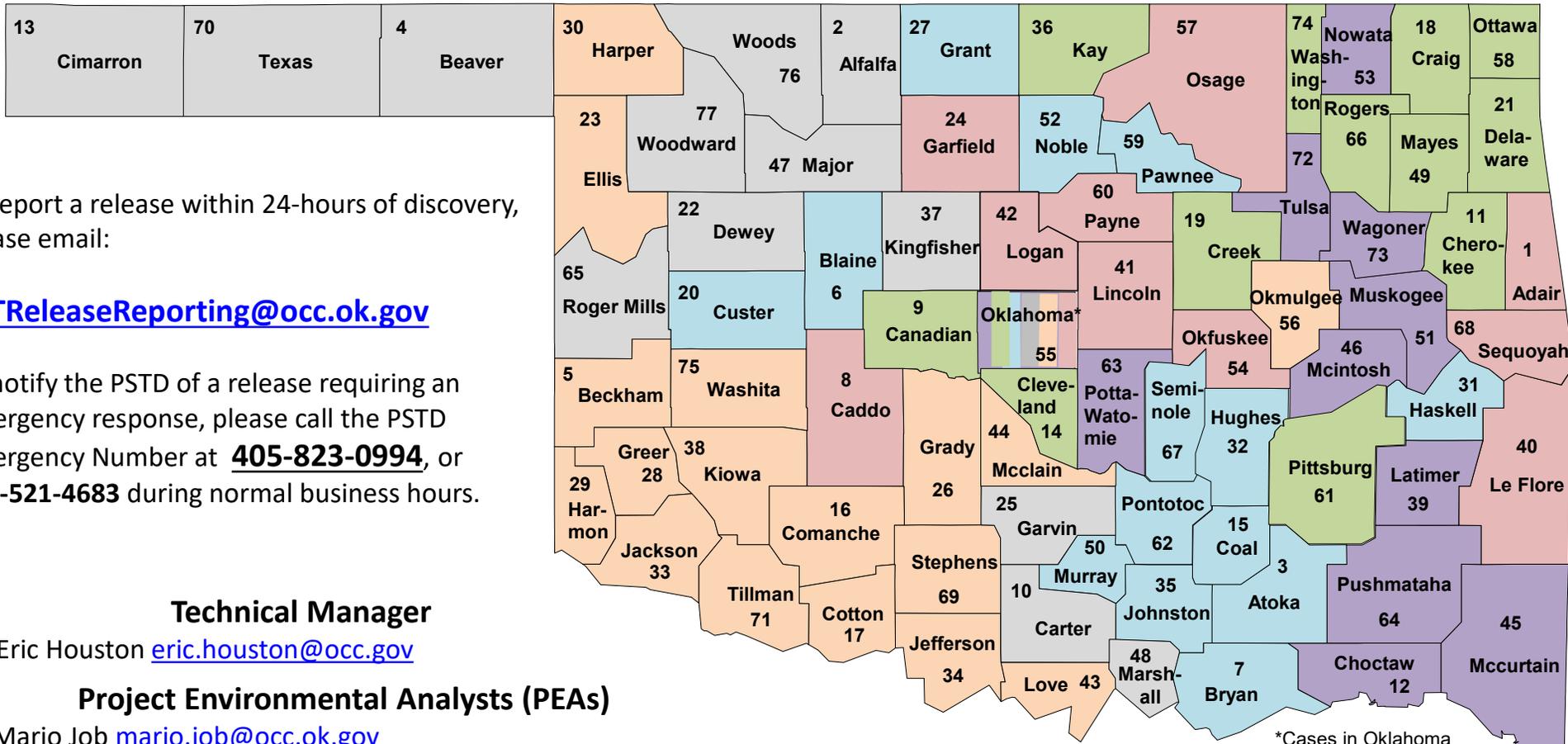
Technical Department

- Technical Manager
 - Eric Houston
- Environmental Analysts
 - Patrick Stewart
 - Stacey Fowler
 - Quinn Lumen
 - Mario Job
 - Amanda Hills
 - Kevin Morgan



OKLAHOMA
Corporation
Commission

OCC PETROLEUM STORAGE TANK DIVISION TECHNICAL DEPARTMENT – PEA AREAS



To report a release within 24-hours of discovery, please email:

PSTReleaseReporting@occ.ok.gov

To notify the PSTD of a release requiring an emergency response, please call the PSTD Emergency Number at **405-823-0994**, or **405-521-4683** during normal business hours.

Technical Manager

Eric Houston eric.houston@occ.gov

Project Environmental Analysts (PEAs)

- Mario Job mario.job@occ.gov
- Stacey Fowler stacey.fowler@occ.gov
- Quinn Lumen quinn.lumen@occ.gov
- Patrick Stewart patrick.stewart@occ.gov
- Amanda Hills amanda.hills@occ.gov
- Kevin Morgan kevin.morgan@occ.gov

*Cases in Oklahoma County are divided between all PEAs

Regulatory Overview

Break Hearts not PST Regulations





PSTD Regulations & Rules

- **Oklahoma Statutes Title 17, Sections 301 thru 348 - Oklahoma Petroleum Storage Tank Consolidation Act**
- Oklahoma Statutes Title 27A
- Oklahoma Administration Code 165
 - Chapter 15 – Fuel Inspection Rules
 - Chapter 16 – Antifreeze Rules
 - Chapter 25 – Underground Storage Tank Rules
 - Chapter 26 – Aboveground Storage Tank Rules
 - **Chapter 27 – Indemnity Fund Rules**
 - **Chapter 29 – Corrective Action Rules**

**Oklahoma Statutes Title 17 -
The Oklahoma Petroleum
Storage Tank Consolidation Act**

A Few of the Highlights
Related to Corrective
Actions



The Oklahoma Petroleum Storage Tank Consolidation Act



Establishes that the Corporation Commission has jurisdiction over underground and aboveground storage tanks that contain antifreeze, motor oil, motor fuel, gasoline, kerosene, diesel, or aviation fuel AND the ODEQ has the jurisdiction to regulate the off-site disposal of contaminated soil, media, or debris



The Department of Environmental Quality also has jurisdiction over underground and aboveground storage tanks containing hazardous substances and other substances or facilities not within the jurisdiction of the Corporation Commission.



Establishes the powers and duties of the PSTD, rules governing storage tank systems, authorizes fees and permits, inspections, and the ability to conduct corrective actions when a release occurs.



Of note, in the corrective action section is, “The owner or operator of a storage tank system shall immediately take all reasonable corrective actions necessary to prevent a release or a threatened release of regulated substances from a storage tank system...”

Disposal

- ✓ A permitted ODEQ facility
- ⊗ NOT an O&G disposal facility

The Oklahoma Petroleum Storage Tank Consolidation Act



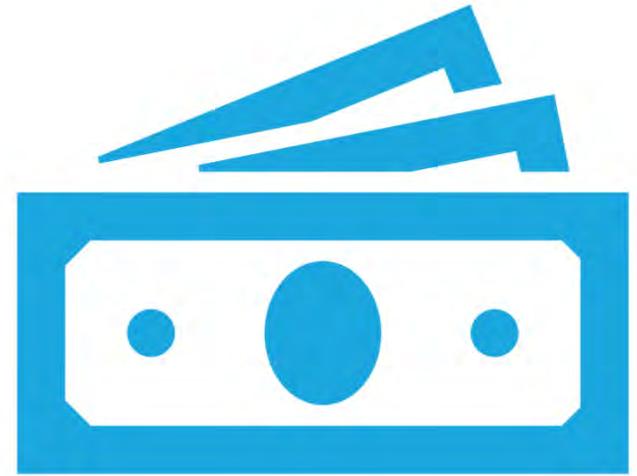
Authorizes PSTD to administer the Indemnity Fund. The Indemnity Fund is funded by an assessment on the sale of motor fuel at the distributor level. And the statute establishes what the Indemnity Fund can and can't be used for.



It establishes a \$2,500,000 limit of reimbursement per release, with the eligible person having a 1% copay up to \$5000. Impacted parties are not responsible for the copay.

CHAPTER 27

The Indemnity Fund



General Eligibility Requirements



Must be an eligible storage tank owner or operator, property owner, adjacent property owner, or impacted party who has met applicable criteria for Fund reimbursement



The claimant must have incurred eligible expenses for an eligible release from an eligible tank for which reimbursement is requested



The claimant must submit properly completed forms, purchase orders, reports, and claims



The release of substances must be from an eligible tank system

Eligible Person



An owner or operator of a storage tank system who fulfills the requirements of 17 O.S. § 327.3 and OAC 165:25 or OAC 165:26.



An owner whose property has been impacted by a release from an on-site or off-site petroleum storage tank system that was never owned or operated by the property owner and has no responsibility for the release.



Adjacent property owner or impacted party.

Reimbursable Expenses



- Reasonable, integral, and necessary costs directly related to the corrective actions.
- Third-party property damage costs and medical injury costs that have been paid by the eligible person as set forth in 17 O.S. § 327.3(H).
- Reasonable, integral and necessary costs for any county, municipality or state agency imposed permit fees, disposal fees or other such fees that may be needed to further corrective actions.



Reimbursement

- Once eligible, the fund can reimburse allowable costs up to \$2.5M per release, with the responsible party subject to a 1% co-pay up to \$5,000. The first \$1,000 co-pay is invoiced once the case is eligible; additional \$1,000 co-pays are sent after each \$100,000 in corrective action costs are expended, up to a total of \$5,000 co-pay.
- All purchase orders, reports, and other required paperwork must be submitted within the required timeframe



Exclusions from Reimbursement

- Tank systems owned or operated by the federal government are not eligible for reimbursement.
- Tank systems owned or operated by a Class I Railroad are not eligible for reimbursement.
- Any person who has received, or is eligible, for reimbursement from any other state or federal agency, insurance company, or third-party payor for the corrective action taken, or to any person for the same cost.
- No reimbursement shall be made for loss of time.
- No reimbursement shall be made for loss of business and taking of property associated with the corrective action.
- No reimbursement shall be made for punitive damages from civil actions resulting from the eligible release.
- No reimbursement shall be made for attorney's or legal fees incurred by or rendered against an eligible person for any reason associated with the release case.
- No reimbursement shall be made for associated but non-integral costs of the corrective action, such as, but not limited to, costs of renovating, removing, or disposing of tanks and other such related items.
- No reimbursement shall be made for releases from storage tank systems on Individual Allottee Indian Trust lands or Tribal Trust lands.



Workplans



- PSTD has a pre-approval process.
- Workplans are used to approve scopes of work prior to the case being IF eligible, OR for cases that are deemed ineligible.
- A Workplan agrees with the scope of the work and that the costs appear to be reasonable, but cost reimbursement cannot be considered until the Workplan is upgraded and an approved purchase order is issued.

Purchase Orders (POs)



For approved purchase orders, allowable costs are reimbursed after the required documents (e.g., reports, change orders, etc.) have been submitted and approved.



Purchase orders will not be issued for work that has been completed without pre-approval.



All purchase order requests must be submitted online within the required timeframe by the Licensed Environmental Consultant.

Sent via GovDelivery on May 15, 2025



LICENSEE'S RESPONSIBILITY TO SUBMIT ITEMS

WITHIN REQUIRED TIMEFRAMES

Due to an increase in the failure to submit mandatory paperwork, test results, scheduling forms, and/or reports within the required timeframes established, licensees are advised that effective July 1, 2025, the Petroleum Storage Tank Division ("PSTD") will be enforcing violations of licensing rules.

Failure to timely submit required documentation, report tank system failures within 24 hours or falsely signing a verification for work performed may result in enforcement action up to and including: informal reprimand, formal reprimand, license suspension, revocation or nonrenewal of a license. Any licensee in violation of state law, PSTD administrative rules or Commission orders may be subject to the disciplinary action options found in OAC 165:25-1-105, OAC 165:26-1-111, OAC 165-29-3-91 or fines for noncompliance after notice and hearing.

Licensed Environmental Consultants should also be aware with regard to approved purchase orders for corrective actions, OAC 165-27-7-11(a)(5)(C) states: *"Unless agreed upon by PSTD, the eligible person and the Licensed Environmental Consultant, in writing, any purchase orders that have not been complete and submitted for payment within 120 days after the scope of work completion date are null and void."*

Please call 405-521-4683 with any questions regarding this notice or to seek additional information.

Regards,

Robyn Strickland, Director

Petroleum Storage Tank Division



Purchase orders that have NOT been completed and submitted for payment within 120 days after the scope of work completion date are NULL and VOID.

POs Continued

Internal Process for PO Request Approval Once Submitted by the Environmental Consultant



- Request is received by PSTD Technical Staff



- Request is processed & approved by Technical



- PSTD Accounting reviews & approves the request



- Indemnity Fund Administrator approves the request once requirements are met



- After PSTD receives the monthly assessment from the Tax Commission, the PO request is funded by the Indemnity Fund Administrator



Accounting Department issues the approved purchase order

Chapter 29

Corrective Action

Release reporting

Possible conditions to activate a release case

Assessing backfill

Licensing

Release Reporting

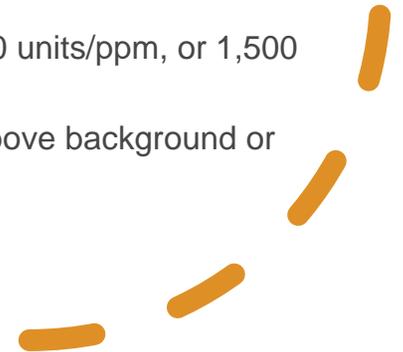
Report discovered releases by:

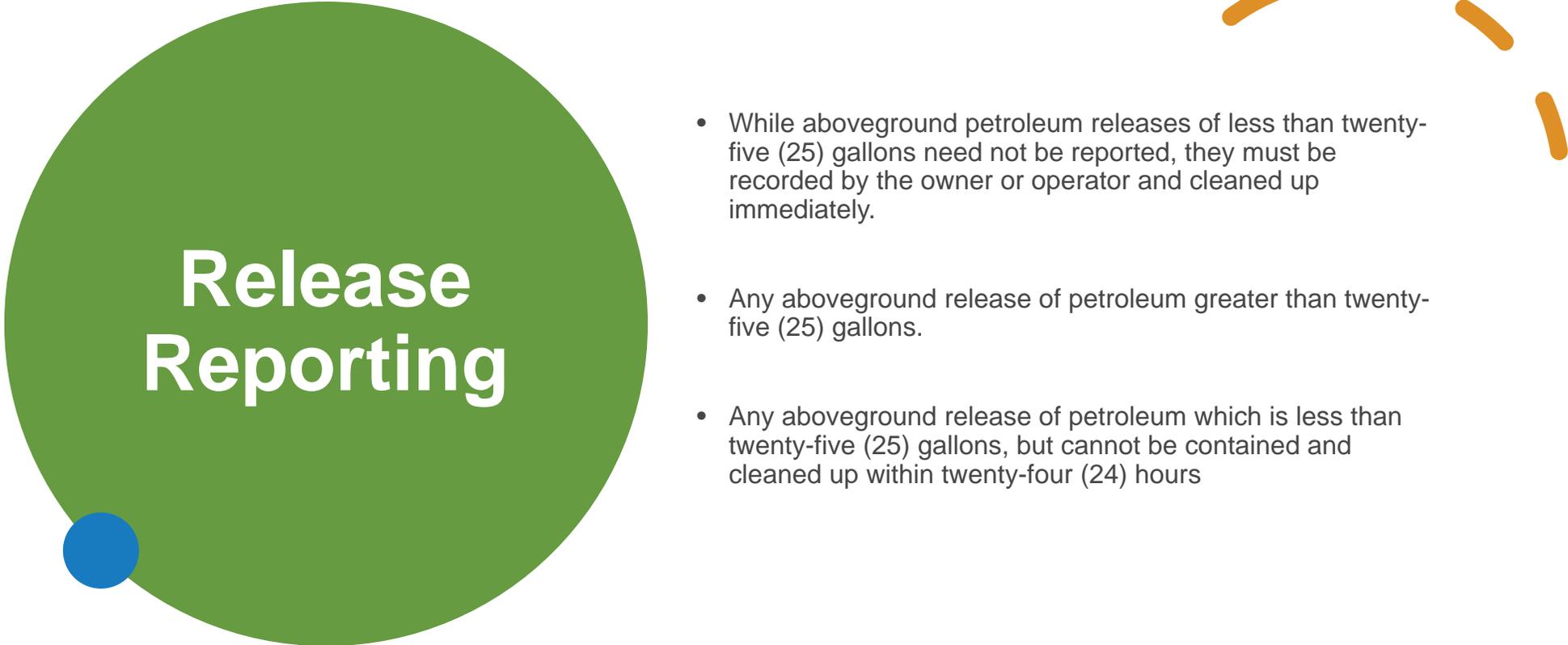
- Email at PSTReleaseReporting@occ.ok.gov
- Telephone at (405) 521-4683 or 1-888-621-5878
- If after hours, on weekends, or holidays, call the PSTD emergency phone number at (405) 823-0994. **PERFERABLY IF A TRUE EMERGENCY ONLY!**



Release Reporting Requirements

- All petroleum storage tank system owners, operators, their agents and employees, or transporters must report to PSTD within **twenty-four (24) hours** of discovering any substances, conditions, or monitoring results that indicate a release may have occurred.
- The discovery of released regulated substances at the petroleum storage tank system facility or in the surrounding area including, but not limited to, the presence of free product or vapors in soils, basements, crawlspaces, sewer and utility lines, and nearby surface water whether on-site or off-site.
- Any unusual operating conditions observed by the owner or operator, like the unexplained erratic behavior of product dispensing equipment, the sudden loss of product from the petroleum storage tank system, an unexplained presence of water in the tank, etc.
 - Two (2) consecutive 30-day periods of inventory control
 - Any UST system inconclusive or failure from a third-party-certified Statistical Inventory Reconciliation (SIR) analysis
- An unusual level of vapors, some examples:
 - A vapor monitor well reading in excess of 4,000 units/ppm, or 1,500 units/ppm for diesel storage tanks
 - An increase in vapor levels of 500 units/ppm above background or historical levels





Release Reporting

- While aboveground petroleum releases of less than twenty-five (25) gallons need not be reported, they must be recorded by the owner or operator and cleaned up immediately.
- Any aboveground release of petroleum greater than twenty-five (25) gallons.
- Any aboveground release of petroleum which is less than twenty-five (25) gallons, but cannot be contained and cleaned up within twenty-four (24) hours



ALL known
belowground releases
in ANY quantity must
be reported.

Emergency Release

- Any releases requiring EMERGENCY corrective action must be reported IMMEDIATELY to PSTD at:
 - (405) 521-4683 or 1-888-621-5878.
 - After office hours, weekends, or holidays, calls must be reported to PSTD's emergency number at (405) 823-0994.



Release Reporting



If any of the possible, probable, or definite release conditions previously mentioned are not reported within twenty-four (24) hours, the owner/operator may be subject to enforcement action.



Reporting requirements DO NOT relieve the owner or operator of the responsibility to take corrective action as required to protect human health and the environment, including the containment and cleanup of spills and overfills that are not required to be reported.

Possible conditions to activate a release case



Free product.



Contaminated groundwater and/or soil that exceed OCC action levels.



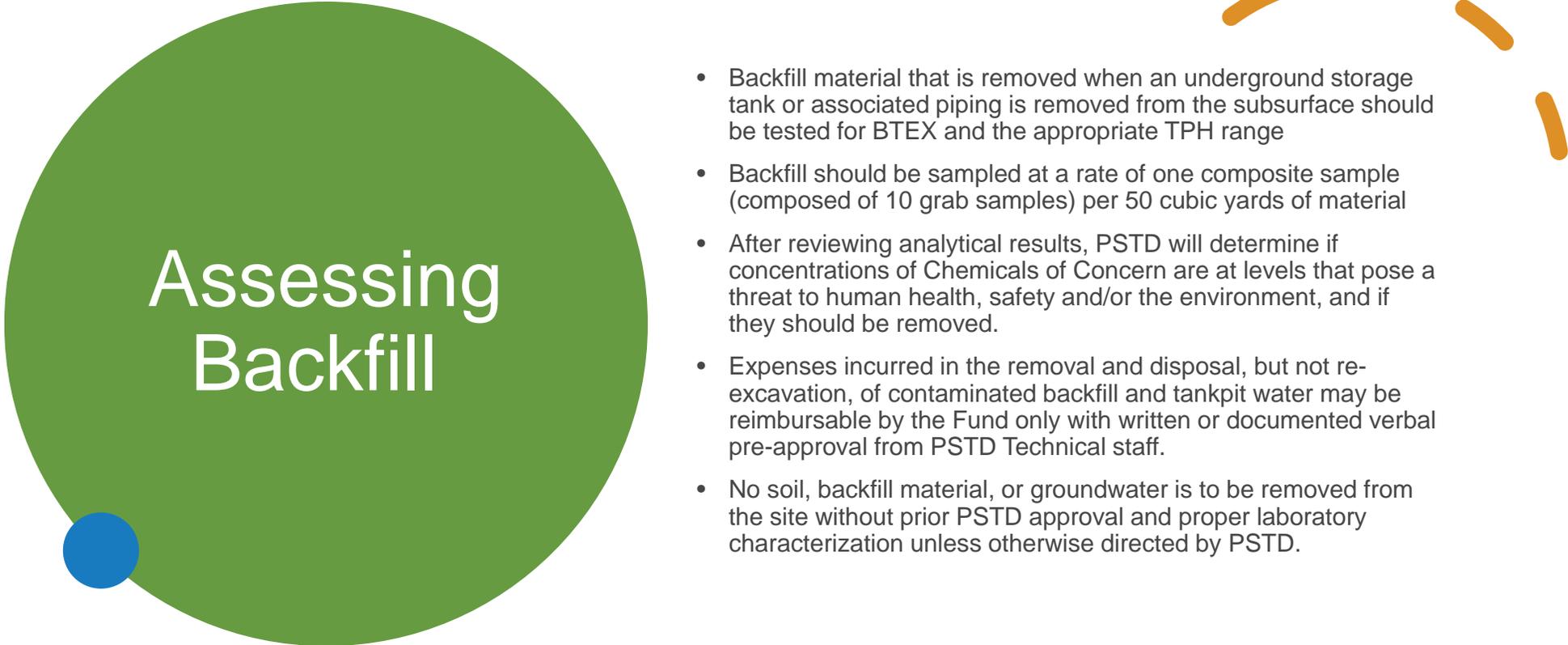
Organic vapor readings above background levels.



Actionable levels of petroleum staining or odors.



Any other indication that a release from a regulated petroleum storage tank system has occurred that is harmful to human health, safety or the environment.



Assessing Backfill

- Backfill material that is removed when an underground storage tank or associated piping is removed from the subsurface should be tested for BTEX and the appropriate TPH range
- Backfill should be sampled at a rate of one composite sample (composed of 10 grab samples) per 50 cubic yards of material
- After reviewing analytical results, PSTD will determine if concentrations of Chemicals of Concern are at levels that pose a threat to human health, safety and/or the environment, and if they should be removed.
- Expenses incurred in the removal and disposal, but not re-excavation, of contaminated backfill and tankpit water may be reimbursable by the Fund only with written or documented verbal pre-approval from PSTD Technical staff.
- No soil, backfill material, or groundwater is to be removed from the site without prior PSTD approval and proper laboratory characterization unless otherwise directed by PSTD.



Environmental Consultant License



Training



Education and/or Experience



Pass the Test

Training

40-hour OSHA HAZWOPER
Training

8-hour OSHA HAZWOPER
Refresher (annually)

8-hour OSHA HAZWOPER
Supervisor Training

16-hour RBCA Training

Education and/or Experience



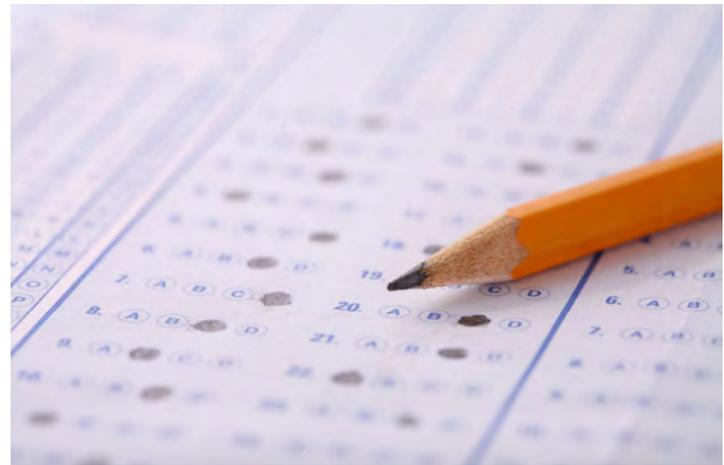
A 4-year degree in Geology, Hydrology, Environmental Science, Environmental Engineering, Petroleum Engineering, Civil Engineering, Geologic Engineering, or an equivalent engineering degree; and at least 4 years of environmental experience with at least 2 years of experience at regulated petroleum storage tank facilities, OR



At least 7 years of environmental experience with at least 2 years of experience at regulated petroleum storage tank facilities

Test

- Must pass an examination covering knowledge of industry standards, reference materials, laws and regulations, and that is approved by the PSTD.



Contractors Day | 11/21/25

ORBCA Overview

From ISCR to Final Closure



Initial Response, Abatement, Site Characterization & Response (ISCR)

- (1) Data on the nature and estimated quantity of the release.
- (2) Data from available sources and/or site investigations concerning the following factors:
 - (A) Surrounding populations.
 - (B) Water quality (regional).
 - (C) Use and approximate locations of water wells, basements, storm cellars, and all subsurface crawl spaces potentially affected by the release within 330 feet from the source, and any wellhead protection delineations.
 - (D) Subsurface soil conditions.
 - (E) Locations and depths of subsurface utilities and petroleum storage tank systems.
 - (F) Climatological conditions.
 - (G) Land use.
 - (H) Depth to and quality of groundwater (site-specific).
 - (L) Latitude and longitude of the center of the tankpit to the nearest second.
- (3) Results of the site check and/or the closure site assessment required by 165:29-3-65.
- (4) Results of the free product investigations.

Time Extension Request (TER)

Time frames for submitting required reports and performing pre-approved required tasks are established for a reason and provide for the timely and orderly performance of corrective actions. Future time extensions will only be granted for compelling reasons and must be submitted to the PSTD Project Environmental Analyst 48-hours prior to the due date for a report or corrective action task.

All requests must be submitted on company letterhead and include the Purchase Order Number, Purchase Order due date, reason for Time Extension Request, and the requested new due date for completion of approved corrective actions. Failure to timely submit required reports or perform pre-approved corrective actions may put the owner/operator in jeopardy of enforcement action.

TERs should not be requested for a longer duration than originally granted by the PEA. Multiple TERs can be accepted for the same SOW if human health and safety are not affected, at the discretion of the PSTD.

ORBCA Wells OAC 165:29



One (1) well must be installed in an apparent upgradient location to any known potential source at the site on or as close to the release as possible.



One (1) well must be installed in a location most likely to be contaminated.



One (1) well must be installed in a location that will allow the determination of an accurate groundwater gradient.



One (1) well must be installed in the direction of the nearest probable Point of Exposure either at the nearest property line or fifty feet (50') from the source of contamination, whichever is closer, or at another location as determined by PSTD.

Organic Vapor Meter Screening

- **Encase Core to minimize losses to volatilization**
 - Acetate Sleeve
 - Aluminum Foil
 - Heavy Duty
 - Extra wide
 - Plastic Wrap
- Screening should be conducted every foot
 - Use hydrophobic filter
- Puncture core
 - ~1 inch deep
 - Move ~6 inches if core is split/broken
- Denser screening data can be utilized for sample site selection
 - 6 inch spacing



Analyticals

- ODEQ Certified Laboratory
- Approved Analysis
 - BTEX
 - 8260
 - 8021
 - TPH
 - OK DEQ GRO
 - OK DEQ DRO
 - TX 1005

MW-1 @ 10'
E1B0384-01 (Solid) - Sampled: 02/23/21 11:31

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Volatile Organic Compounds by EPA Method 8021									
Benzene	15.6	0.263	mg/Kg	52.7	EJC0023	DMB	03/01/21 22:21	EPA 8021B/5035M	
Toluene	4.51	0.263	mg/Kg	52.7	EJC0023	DMB	03/01/21 22:21	EPA 8021B/5035M	
Ethylbenzene	22.6	0.263	mg/Kg	52.7	EJC0023	DMB	03/01/21 22:21	EPA 8021B/5035M	
Xylenes (total)	110	7.90	mg/Kg	52.7	EJC0023	DMB	03/02/21 21:32	EPA 8021B/5035M	
Surrogate: a,a,a-Trifluorotoluene		651 %		25.6-153	EJC0023	DMB	03/01/21 22:21	EPA 8021B/5035M	S-02
Surrogate: 4-Bromofluorobenzene		140 %		32.9-163	EJC0023	DMB	03/01/21 22:21	EPA 8021B/5035M	
Gasoline Range Hydrocarbons by OK 8020/8015M									
Gasoline Range Organics (C6-C10)	953	263	mg/Kg	52.7	EJC0023	DMB	03/02/21 21:32	OK DEQ GRO 5035	
Surrogate: a,a,a-Trifluorotoluene		416 %		19.8-167	EJC0023	DMB	03/02/21 21:32	OK DEQ GRO 5035	S-02
Surrogate: 4-Bromofluorobenzene		149 %		7.52-170	EJC0023	DMB	03/02/21 21:32	OK DEQ GRO 5035	
Diesel Range Hydrocarbons by OK 8000/8100M									
Diesel Range Organics (C10-C28)	75.7	40.0	mg/Kg	1	EJC0010	DMB	03/02/21 17:21	OK DEQ DRO 1997	
Surrogate: Nonacosane		78 %		70-130	EJC0010	DMB	03/02/21 17:21	OK DEQ DRO 1997	
Soxhlet Extraction	Completed		N/A		EJC0010	VAH	03/01/21 13:00	OK DEQ DRO 1997	

Lab ID: 2206354-001

Collection Date: 6/15/2022 9:23:00 AM

Client Sample ID: MW-1 1'

Matrix: SOIL

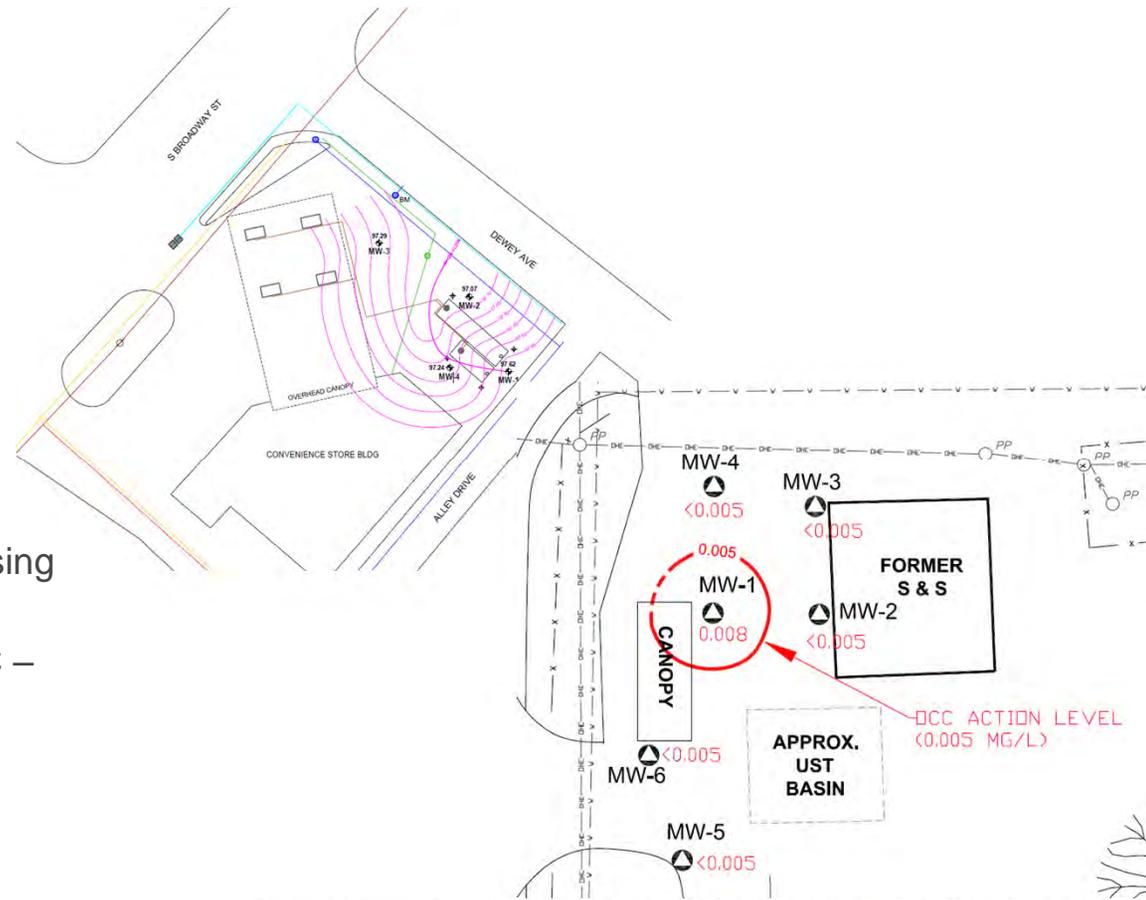
Analyses	Result	RL	Qual	Units	DF	Date Analyzed
BTEX/GRO IN SOIL OR SEDIMENT				SW8021B	Analyst: JR	
BTEX IN SOIL						
Benzene	4.28	0.160		mg/Kg	0.08	6/20/2022 3:33:00 PM
Ethylbenzene	7.86	0.400		mg/Kg	0.08	6/20/2022 3:33:00 PM
Toluene	< 0.400	0.400		mg/Kg	0.08	6/20/2022 3:33:00 PM
Xylenes, Total	5.64	1.20		mg/Kg	0.08	6/20/2022 3:33:00 PM
Surr: 4-Bromofluorobenzene	297	55.4 - 146	S	%Rec	0.08	6/20/2022 3:33:00 PM
Surr: Trifluorotoluene	138	47.6 - 144		%Rec	0.08	6/20/2022 3:33:00 PM
BTEX/GRO IN SOIL OR SEDIMENT				OKGRO	Analyst: JR	
GASOLINE RANGE ORGANICS IN SOIL						
TPH (Gasoline)	745	3.20		mg/Kg	0.08	6/20/2022 3:33:00 PM
Surr: 4-Bromofluorobenzene	112	51.7 - 154		%Rec	0.08	6/20/2022 3:33:00 PM
Surr: Trifluorotoluene	447	47.5 - 154	S	%Rec	0.08	6/20/2022 3:33:00 PM

MTBE

- OCC level of concern is 0.020 mg/L
- Low concentrations of MtBE in water may give the water a bad taste and odor, but this is very receptor-specific.
- If there is a groundwater-ingestion receptor within one (1) mile of the source, the exposure point or waterwell, it must be sampled for MtBE.
- Groundwater must be collected from the well that is the farthest from the source and closest to the groundwater exposure point (WSW) by EPA Method 8021.
- As this analytical method commonly produces “false positives” for MtBE, if the resulting level of MtBE exceeds 20 ug/L, a second analysis must be run by EPA Method 8260.

Maps

- Groundwater Gradient Maps
 - Groundwater elevation = Relative Top of casing (TOC) – Depth to groundwater (DTW)
 - If free product is present – Elevation = (TOC – DTW) + (~0.75 * Free Product Thickness)
- Chemicals of Concern Maps
 - Correct data entry
 - Correct contouring
 - Readable



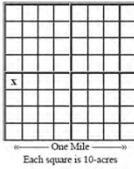
A contour map for the benzene in soil data collected and analyzed for this event. The map should be large enough to readily distinguish all contour intervals and should also show the RBSL or SSTL contour, where applicable.

Boring Logs & OWRB reports

4/11/24, 2:14 PM



Legal Location
North



County Lincoln

WELL OWNER - NAME AND ADDRESS
Well Owner Larry Henderson/Afrieda Webster
Address/City/State PO Box 14424 Oklahoma City, OK
Finding Location 1220 Hwy 99 North, Stroud, OK
Well Name MW-2 and MW-3

NEW WELL CONSTRUCTION DATA

Date Well or Boring Was Completed 02/13/2024
Number of wells or borings represented by this log 2
* (Borings are within the same 10 acre-tract and with the same general depths and lithologies)
Hole Diameter 8.75 inches to a depth of 25 ft.

CASING INFORMATION **Note: If surface casing is used please indicate that on the appropriate well casing information line
Surface Pipe Material Surface Pipe Diameter inches Surface Pipe From ft to ft
1) Well Casing Material PVC Casing Diameter 2 inches Casing From 0 ft to 10 ft

SCREEN OR PERFORATION INFORMATION

Type of Screen PVC Type of Slots or Openings Factory Slotted - 10 slot (0.010 inch) From 10 ft to 25 ft

Well ID: 227148

MULTI-PURPOSE WELL COMPLETION & PLUGGING REPORT

Oklahoma Water Resources Board
3800 North Classen Boulevard
Oklahoma City, OK 73118
Telephone (405) 530-8800

WELL ID NUMBER: 227148

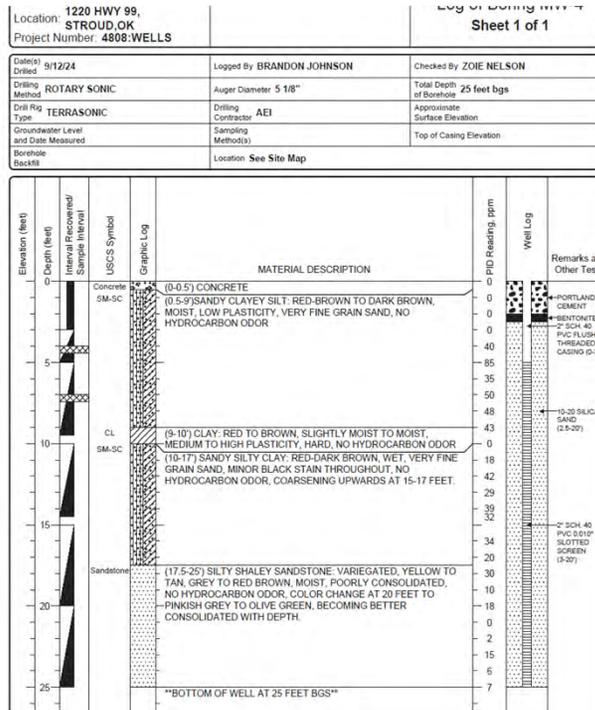
Quarters NW-NW-SW Section 22 Township 15N Range 06E

Latitude 35.7603667 Longitude -96.6624833

Date collected (latitude and longitude), if different from date the well was drilled: 02/13/2024
Method latitude and longitude was collected: GPS - uncorrected data

Variance Request No. (if applicable) n/a

USE OF WELL: Site Assessment



4/11/24, 2:14 PM

Well ID: 227148

FILTER PACK INFORMATION

Filter Pack Material: Sand 10-20 (coarse)
Filter Pack Interval: From 8 ft to 25

WELL SEAL INFORMATION

Type of Surface Seal Cement Grout
Type of Annular Seal n/a
Filter Pack Seal Material Bentonite Granules/Clips

Surface Seal Interval: From 0 ft to 2 ft
Annular Seal Interval: From n/a ft to n/a ft
Filter Pack Seal Interval: From 2 ft to 8 ft

TYPE OF COMPLETION: Flush Mounted

HYDROLOGIC INFORMATION

Depth to water at time of drilling ft Estimated yield of well gpm First water zone 12 ft

LITHOLOGY DESCRIPTION

MATERIAL	ENCOUNTERED		SATURATED
	FROM (ft.)	TO (ft.)	
Silty Clay	0	25	N

WELL LOCATION TO POTENTIAL SOURCES OF POLLUTION

Has this well been disinfected after completion of work? No
Are there any potential sources of pollution or wastewater lagoons within 300 ft of the well? n/a
Distance of Well is n/a from possible source. Type of possible source: n/a

PLUGGING INFORMATION

Date Well or Boring Was Plugged n/a Total Depth of well being plugged ft.
Was the well contaminated or was it plugged as though it was contaminated? n/a
If the well or boring was plugged as if it was contaminated, was the casing removed or perforated? n/a
Was the grout tremied? n/a
Backfilled with n/a Backfilled from ft to ft.
Grouted with n/a Grouted from ft to ft.
Grouted with Cement Grouted from ft to ft.

Firm Name ASSOCIATED ENVIRONMENTAL INDUSTRIES CORP. DPC No DPC-0269
Operator Name WESLEY FOSTER OP No OP-1809
Date 04/11/2024
Comments: n/a

TIER 1A

VS

TIER 2

- Risk Based Screening Levels (RBSLs)
 - The default Exposure Factors cannot be modified nor can degradation rates be used under a Tier 1A assessment.
 - All water wells are treated as drinking water wells
 - The Fate and Transport Parameters should be replaced by site-specific information obtained through site investigation/assessment.
 - Justification must be provided when any default Fate and Transport Parameters are modified.
- Site Specific Target Levels (SSTLs)
 - Can modify Exposure Factors
 - Previously identified irrigation wells can be updated as such.
 - One objective of this investigation is to eliminate or confirm whether pathways to the various receptors identified in Tier 1A are complete.

Modified Tier 2



Used when the only update is to update the RBSLs / SSTLs due to a justified removal of an exposure pathway



Report to include Sections 9, 10, and 11. Possibly section 7 if there is updated data that will be used in Sections 9, 10, & 11.

Water Supply Well Search



ISCR - 330 Foot Search

Tier 1A – 660 Foot Search

Tier 1A - 0.5 OWRB records search

3"	100
2"	100
1.5"	100
1"	100
0.75"	100
0.375"	100
#4	100
#10	100
#40	97
#100	90
#200	58

Soaking Time: 16 hours
 Stirring Time: 1 minutes
 Agitation Time: 1 minutes

Hydrometer Analysis	
Size	% Smaller
0.005 mm	20.1
0.001 mm	11.4

Parameter	Result
D ₁₀	<0.0009 mm
D ₂₀	0.0050 mm
D ₃₀	0.025 mm
D ₅₀	0.056 mm
D ₆₀	0.078 mm
D ₈₀	0.149 mm
C _u	unavailable
C _c	unavailable

ASTM Grain Size Tabulation		
Description	Size	% This Size
Gravel	< 3", > #4	0
Coarse Sand	< #4, > #10	0
Medium Sand	< #10, > #40	3
Fine Sand	< #40, > #200	40
Silt	< 0.074 mm, > 0.005 mm	37.5
Clay	< 0.005 mm	20.1
Colloids	< 0.001 mm	11.4

Geotechnical Samples

Volumetric Moisture Content	31.7%
200 Wash Sieve Analysis (ASTM D-1140)	
Percent Passing #200 Sieve	75.6%
Bulk Density, Specific Gravity, Porosity (ASTM D-854)	
Dry Bulk Density (g/cc)	1.77
Specific Gravity	2.65
Porosity	0.33
Cumulative Particle-Size Distribution (ASTM D-2487)	
Coefficient of Uniformity (Cu)	N/A
Coefficient of Curvature (Cc)	N/A
Fractional Organic Carbon (EPA Method Walkley-Black)	
Fractional Organic Carbon	0.60%

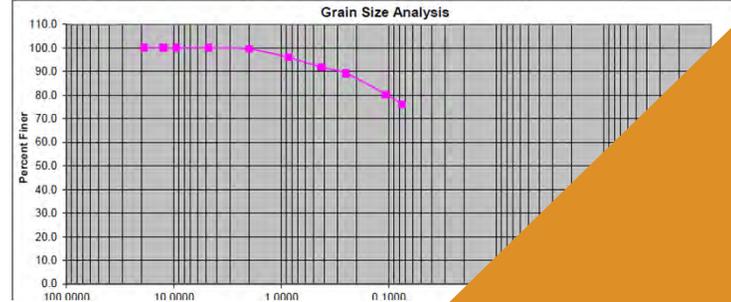
1/2	12.500	100.0
3/8	9.500	100.0
No. 4	4.750	99.9
No. 10	2.000	99.4
No. 20	0.850	95.8
No. 40	0.425	91.7
No. 60	0.250	89.1
No. 140	0.106	80.2
No. 200	0.075	76.0

Location: MW-5 (3-5)

Sample Date: 08/10/2027
 Sampled By: Client
 Client PO: 4808WELLS

Material Represented		
Dark Brown Soil Entire Shelby Tube		
Sample ID		
MW-5, Depth = 3 ft. to 5 ft.		
PARAMETER	RESULT	
Natural Water Content, %	mass of sample water / mass of soil solids * 100%	17.1
Natural Bulk Density, g/cc	mass of moist soil / volume of total sample	2.001
Dry Bulk Density, g/cc	mass of soil solids / volume of total sample	1.709
Mineral Specific Gravity at 20°C, g/cc	mass of soil solids / volume of soil solids	2.736
Fractional Organic Carbon by Walkley-Black Method, % Carbon	mass of sample carbon / mass of sample * 100%	0.28
Volumetric Water Content	volume of sample water / volume of total sample	0.292
Porosity	volume of sample voids / volume of total sample	0.375
Void Ratio	volume of sample voids / volume of soil solids	0.601
Saturation, %	volume of sample water / volume of sample voids * 100%	77.8

Test Methods: Walkley-Black; ASTM D2216, D854; AASHTO T233



YAY MATH!

- Hydraulic gradient (I) (ft/ft)

$$\frac{\text{Difference in water levels between 2 wells}}{\text{Distance between the same 2 wells}}$$

- Hydraulic conductivity (K) (cm/sec)

- Aquifer Pumping Test
- ASTM Method D5084-90
- ASTM Method D2434-68
- Grain Size Distribution
- Slug or Bail-down Tests

$$K = cd^x$$

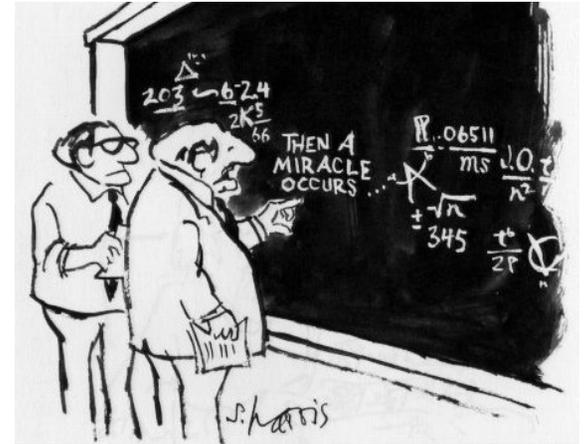
- Darcy Velocity = $K \cdot I$

Contractors Day | 11/21/25

papers to an apartment complex. If these
of his route, how many papers does he

$$x = 91$$

*You HAVE TO
SHOW your work!*



"I think you should be more explicit here in step two."

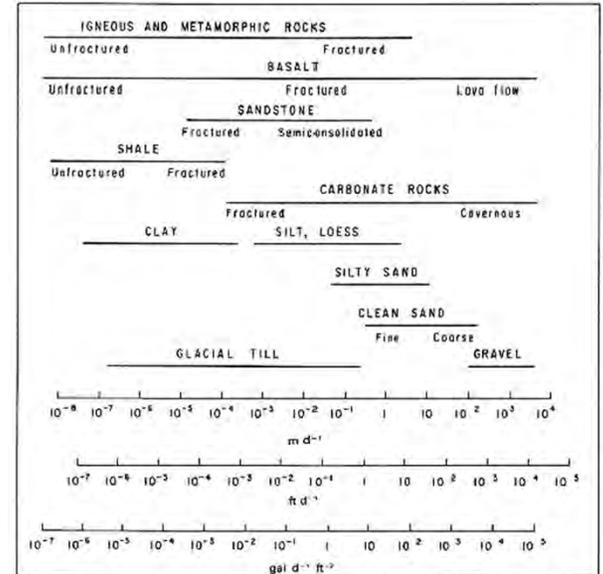
Ranges of values for natural materials

Table of saturated hydraulic conductivity (K) values found in nature

Values are for typical fresh groundwater conditions — using standard values of viscosity and specific gravity for water at 20°C and 1 atm. See the similar table derived from the same source for intrinsic permeability values.^[1]

K (cm/s)	10 ²	10 ¹	10 ⁰ -1	10 ⁻¹	10 ⁻²	10 ⁻³	10 ⁻⁴	10 ⁻⁵	10 ⁻⁶	10 ⁻⁷	10 ⁻⁸	10 ⁻⁹	10 ⁻¹⁰
K (ft/day)	10 ⁵	10,000	1,000	100	10	1	0.1	0.01	0.001	0.0001	10 ⁻⁵	10 ⁻⁶	10 ⁻⁷
Relative Permeability	Pervious			Semi-Pervious				Impervious					
Aquifer	Good			Poor				None					
Unconsolidated Sand & Gravel	Well Sorted Gravel	Well Sorted Sand or Sand & Gravel	Very Fine Sand, Silt, Loess, Loam										
Unconsolidated Clay & Organic			Peat	Layered Clay		Fat / Unweathered Clay							
Consolidated Rocks	Highly Fractured Rocks		Oil Reservoir Rocks	Fresh Sandstone	Fresh Limestone, Dolomite	Fresh Granite							

Source: modified from Bear, 1972



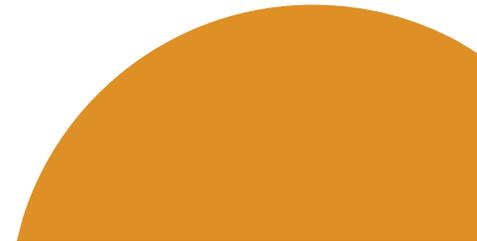
Receptors & Pathways

- Surficial Soil
 - 2 feet
 - Construction worker scenario is ~5 feet, but can change if activities or utilities go deeper
- Sub-Surface Soil
 - 2-10 feet
- Shallow Groundwater
 - 10 feet or less
- Ingestion of Shallow & Deep Groundwater
 - Current – All wells are drinking water wells in tier 1A
 - Future - If the municipality allows the installation of new wells



SITE CONCEPTUAL EXPOSURE SCENARIO				
Exposure Route, Medium, and Exposure Point	RESIDENT CHILD	RESIDENT ADULT	COMMERCIAL WORKER	CONSTRUCTION WORKER*
Ingestion and Dermal contact with surficial soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Indoor inhalation of vapors from surficial soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NA
Indoor inhalation of vapors from sub-surface soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NA
Ingestion of shallow & deep groundwater	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NA
Indoor inhalation of vapors from shallow groundwater	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NA
Dermal contact with shallow groundwater	NA	NA	NA	<input type="checkbox"/>

* For construction workers, the first pathway includes indoor inhalation of vapor emissions from sub-surface soils
 NA : Not Applicable



Current

Vs.

Future

For carcinogenic effects, the OCC considers 1×10^{-6} as the maximum allowable risk under current land use and activities.



For reasonable potential future complete exposure pathways, the OCC considers 1×10^{-4} as the acceptable risk level.

Tier 1A/2

Water Well Scenario

Resident-Child	Resident-Adult	Commercial Worker	Construction Worker
Surficial Soil (<2 feet deep)	Surficial Soil (<2 feet deep)	Surficial Soil (<2 feet deep)	Surficial Soil
<input type="checkbox"/> Ingestion + Dermal			
<input type="checkbox"/> Indoor Inhalation	<input type="checkbox"/> Indoor Inhalation	<input type="checkbox"/> Indoor Inhalation	
Sub-Surface Soil	Sub-Surface Soil	Sub-Surface Soil	
<input type="checkbox"/> Indoor Inhalation	<input type="checkbox"/> Indoor Inhalation	<input type="checkbox"/> Indoor Inhalation	
Groundwater	Groundwater	Groundwater	Groundwater
<input type="checkbox"/> Indoor Inhalation	<input type="checkbox"/> Indoor Inhalation	<input type="checkbox"/> Indoor Inhalation	<input type="checkbox"/> Dermal Contact
<input type="checkbox"/> Ingestion of Water	<input type="checkbox"/> Ingestion of Water	<input type="checkbox"/> Ingestion of Water	
<input type="checkbox"/> Summary	<input type="checkbox"/> Summary	<input type="checkbox"/> Summary	<input type="checkbox"/> Summary

Allowable soil and groundwater concentrations for :

Resident Commercial Worker

With Decay Without Decay

With Decay Without Decay

EXPOSURE FACTORS				
	UNITS	VALUE USED	Tier 1 (Default Values)	SOURCE
Construction Worker	yr	0.083	0.083	Tier 1 Value
Exposure Time for indoor inhalation, dermal contact, and soil ingestion				
On/Off-site Resident (adult)	hrs/day	16	16	Tier 1 Value
On/Off-site Resident (child)	hrs/day	16	16	Tier 1 Value
On/Off-site Commercial Workers	hrs/day	8	8	Tier 1 Value
Construction Worker	hrs/day	8	8	Tier 1 Value
Exposure Time for dermal contact with water				
Construction Worker	hrs/day	8	8	Tier 1 Value
Exposure Frequency				
On/Off-site Resident (adult and child)	days/yr	120	350	Site Specific Value
On-site Commercial Worker	days/yr	120	250	Site Specific Value
Construction Worker	days/yr	250	250	Tier 1 Value
Soil ingestion rate				
On/Off-site Resident (adult)	mg/day	100	100	Tier 1 Value
On/Off-site Resident (child)	mg/day	200	200	Tier 1 Value
On/Off-site Commercial Worker	mg/day	50	50	Tier 1 Value
Construction Worker	mg/day	50	50	Tier 1 Value
Daily Indoor Inhalation Rate				
On/Off-site Resident (child)	m ³ /hr	0.937	0.937	Tier 1 Value
On/Off-site Resident (adult)	m ³ /hr	0.937	0.937	Tier 1 Value
On/Off-site Commercial Worker	m ³ /hr	2	2	Tier 1 Value
Construction Workers	m ³ /hr	2	2	Tier 1 Value
Daily Outdoor Inhalation Rate				
Construction Workers	m ³ /hr	2	2	Tier 1 Value
Exposure Time for outdoor inhalation, dermal contact, and soil ingestion				
On/Off-site Resident (adult)	hrs/day	16	16	Tier 1 Value
On/Off-site Resident (child)	hrs/day	16	16	Tier 1 Value
On/Off-site Commercial Workers	hrs/day	8	8	Tier 1 Value
Construction Worker	hrs/day	8	8	Tier 1 Value
Daily water ingestion rate				
On/Off-site Resident (adult)	L/day	0.33	2	Site Specific Value
On/Off-site Resident (child)	L/day	0.33	1	Site Specific Value
On/Off-site Commercial Workers	L/day	0.33	1	Site Specific Value
Construction Workers	L/day	1	1	Tier 1 Value
Skin surface area for dermal contact with soil				
On/Off-site Resident (adult)	cm ²	3160	3160	Tier 1 Value
On/Off-site Resident (child)	cm ²	3160	3160	Tier 1 Value
On/Off-site Commercial Workers	cm ²	3160	3160	Tier 1 Value
Construction Worker	cm ²	3160	3160	Tier 1 Value
Soil skin adherence factor	mg/cm ²	0.5	0.5	Tier 1 Value
Oral relative absorption factor	---	1	1	Tier 1 Value
Dermal relative absorption factor (volatiles)	---	0.5	0.5	Tier 1 Value
Dermal relative absorption factor (PAHs)	---	0.05	0.05	Tier 1 Value
Target Risk and Hazard Quotient				
Target Hazard Quotient (THQ)	---	1	THQ = 1 for both Current and Future Conditions	
Target Excess Individual Lifetime Cancer Risk (TR)	---	1.00E-04	TR = 10 ⁻⁶ for Current and 10 ⁻⁴ for Future Conditions	

Chemical	User Specified Unsatrated Zone DAF	Calculated Mixing Zone DAF	Calculated Saturated Zone DAF	Overall DAF	Target Exposure Point Concentration [mg/l]	Allowable Soil Concentration at source [mg/kg]
Benzene	1	34.33	5.90	202.48	0.0519	2.02
Toluene	1	34.33	5.90	202.48	27.652	179.02
Ethylbenzene	1	34.33	5.90	202.48	13.826	343.53
Xylenes (mixed)	1	34.33	5.90	202.48	198.000	89.20
Naphthalene	1	34.33	5.90	202.48	5.530	49.61

WITHOUT DECAY

PRINT

Chemical	Calculated Saturated Zone DAF	Target Exposure Point Concentration [mg/l]	Allowable Groundwater Concentration	
			Source [mg/l]	Compliance point [mg/l]
Benzene	5.90	0.0519	0.306	0.14102
Toluene	5.90	27.652	163.07	75.114
Ethylbenzene	5.90	13.826	87.54	37.557
Xylenes (mixed)	5.90	198.000	198.00	198.000
Naphthalene	5.90	5.530	31.00	15.023

Note:
 * Indicates allowable soil concentrations exceeded saturated soil concentration and hence saturated soil concentration is listed as allowable soil concentration
 # Indicates allowable groundwater concentrations exceeded pure component water solubility and hence water solubility is listed as allowable groundwater concentration

- Can change Geotech data to saturated zone
- Use Without Decay option
- Use Allowable Concentration at Source Results for Soil and Groundwater
- Irrigation Well For Tier 2 only
 - Exposure Frequency 120 days/yr
 - Daily Water Ingestion Rate 0.33 or 0.355 L/day

Post Tier 1A / Tier 2 Case Actions



- Delineation
- Reduce Completed Exposure Pathways
 - Monitoring
 - Air monitoring
 - Well plugging
- 3D Smear zone
- Remediation
 - High Vacuum Extraction & Injection
 - Remediation System
 - Excavation
- Monitoring
- Closure

Reduce Completed Exposure Pathways



Air / Vapor Monitoring



Water Well Sampling or Plugging



KIM DAVID TERRY HIRT ROB ANTHONY
Commissioner Commissioner Commissioner

OKLAHOMA
 Corporation
Division Division
 Petroleum Storage Tank Petroleum Storage Tank

AGREEMENT TO ALLOW PLUGGING OF WATER WELL

Property Owner: Name: Mr. Terry Smith OCC Case # 004-003
 Address: 10012 County Road 2020
 City: Ada State: OK Zip: 74820

Property Legal Description: M/V NW 04W Sec 29 13N R7E
 Water Well Location: Lat: 34.872648 Long: -96.986178

In order to protect human health, safety, and the environment it is agreed by Terry Smith, the Property Owner, and The Petroleum Storage Tank-Related Environmental Control Authority and of the Oklahoma Corporation Commission (The Indemnity Fund) that the captioned water well on the subject property will be plugged.

The Property Owner agrees:

- To allow the captioned well to be plugged per Oklahoma Water Resource Board (OWRB) regulations.
- Not to drill a water well for any use on the subject property, or close a water well for any use to be drilled, that does not conform to OWRB water well installation rules and regulations without first obtaining written permission from the OWRB or OCSO, if available.
- That this agreement does not, in any form or fashion, substitute the Oklahoma Corporation Commission or the responsible person whose tank system was responsible for groundwater contamination.

The Indemnity Fund agrees:

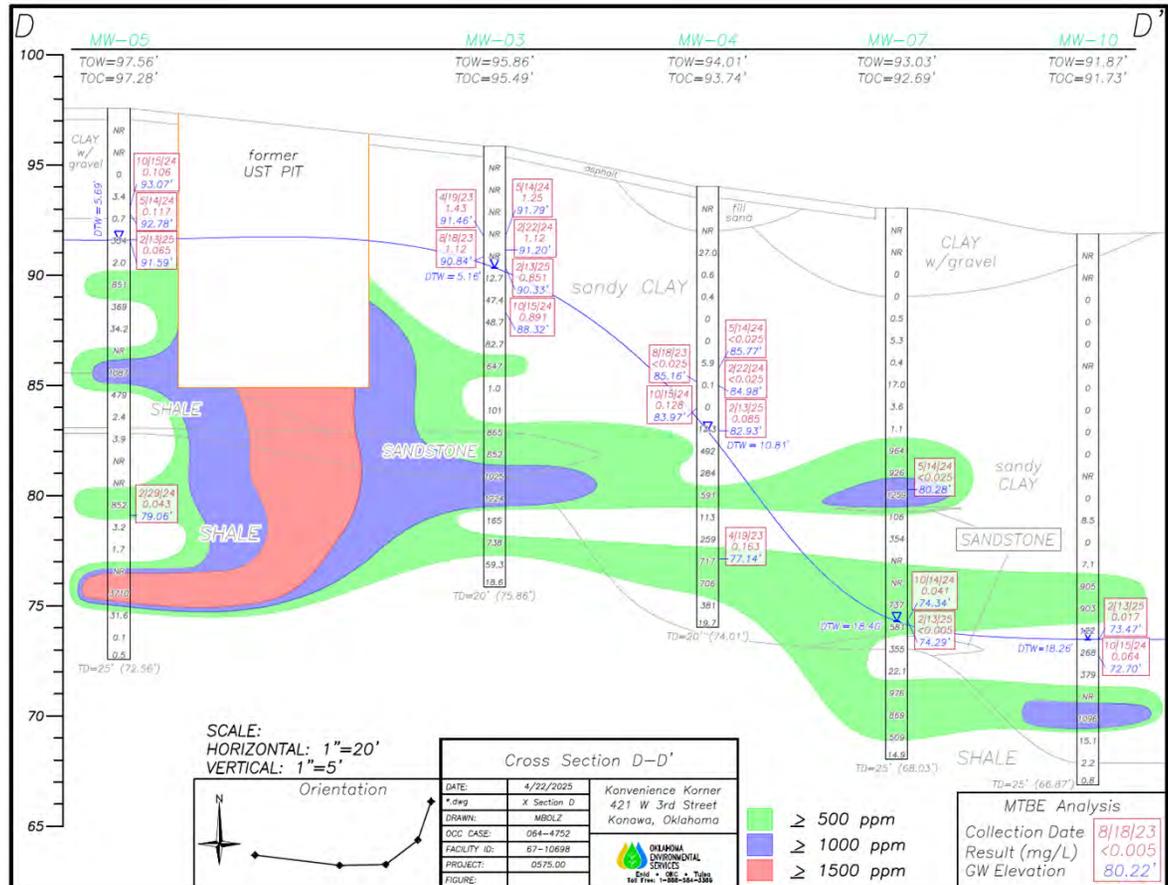
- To reimburse the costs to plug the captioned well.

Having read and agreeing to the above, the Oklahoma Corporation Commission and the Property Owner execute, or cause their representatives to execute, this agreement.

By: Terry Smith Terry Smith, Property Owner Date: 6/11/2023
 By: Robert Stockley Robert Stockley, Director, OCC-PSD Date: 6/11/23



3D Smear Zone Analysis



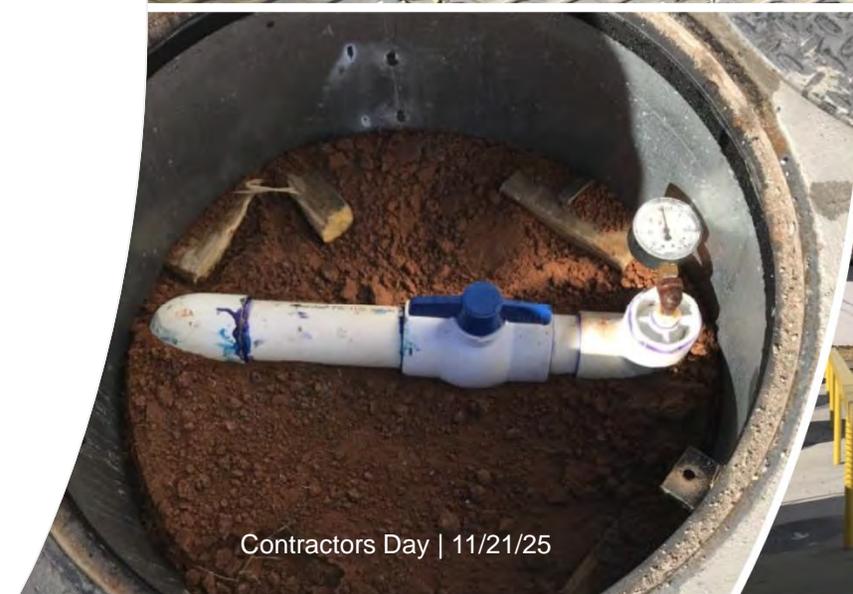
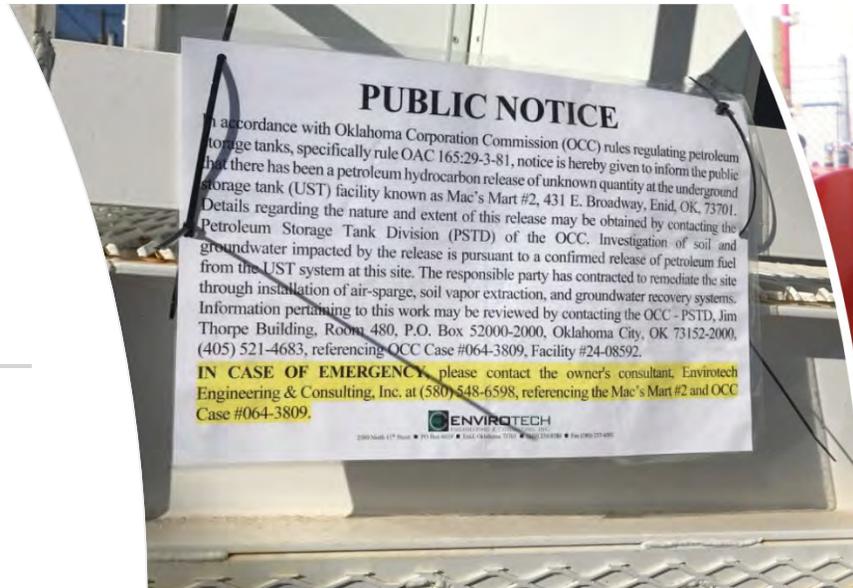
Remediation - Vacuum Extraction & Injection

- Extractions
 - Low Vacuum Extraction
 - High Vacuum Extraction
 - Slurping
- Injections
- Surfactants
 - Chemical Oxidants
 - Microbes



Remediation - Remediation Systems

- Air Sparge
- Soil Vapor Extraction
- Surfactant Flush
- Free Product Removal
- Pump and Treat



Contractors Day | 11/21/25

Remediation - Excavation

It is important to test the soil before determining the cost of soil disposal. High hydrocarbon concentrations, high lead and other metals can make it both dangerous to remove the soil and difficult to find a disposal site. These criteria should be addressed during the investigation and before the remediation plan is completed. It may be necessary to conduct a direct-push investigation of the soil plume area to fully calculate the dimensions of the excavation.



Public Notification

Upon confirmation that soil and/or groundwater contamination is above action levels, owners or operators must, at a minimum, notify adjacent or abutting property owners that have been, or may be impacted by the release. This notice should be made just after delineation of the release to Tier 2 risk levels or prior to a case closure based on Tier 1A modified RBSL's.

For each confirmed release that requires remediation or closure by a risk assessment or Risk Based Corrective Action, the owner or operator must notify property owners that have been or may be impacted by the release.

The notices required must be given by certified mail/return receipt requested. Copies of the return receipts must be included in the Public Participation Report submitted to the PSTD.

If no comments have been received within thirty (30) days of the receipt date of the certified mail notice letters required by paragraph (c) of this Section, then remediation or closure activities may commence. Any public comments related to the proposed remediation or case closure must be submitted in writing to the OCC to the attention of the PSTD Project Environmental Analyst working on this case, whose name and address will be on the notice letter

FINAL CLOSURE

- Closure occurs when PSTD has determined that the appropriate risk levels have been achieved for both BTEX and TPH and monitored as remaining below the risk level for a period of time as directed by PSTD, or when PSTD has determined the case is eligible for closure under Risk-Based Corrective Action.
- All monitoring and remediation wells must be decommissioned according to OWRB rules. Generally, this means overdrilling the entire well (casing, screen, grout and sand pack) and filling the hole with grout.
- Provide evidence of proper decommissioning of equipment and corrective action materials.
- The final closure report will not be approved until all residual wastes have been disposed.



The Oklahoma Corporation Commission (OCC) has approved the Final Closure Report for the above referenced confirmed release case submitted under purchase order number WP116370 by your consultant on 7/22/2024. The report indicates that all closure requirements for this case have been completed and this case is now **closed and no further action is required**. If in the future levels of chemicals of concern are discovered to exceed those determined appropriate for this site, then this case may be reactivated. A copy of this letter is being sent to your environmental consultant who will know how to respond.

PST Corrective Action Portal

Receive help now!



When entering information for a work plan or purchase order request, red text in this area indicates what fields must be completed or attachments required.

The screenshot shows a web interface for a 'Purchase Order Request'. On the left is a navigation menu with items like 'Home', 'Case Actions', 'Cases', 'Search Requests', 'Request Activity', 'Questionnaire', 'Attachments', 'Unit Cost Backup', 'Time Extension', 'Control Panel / Submit', 'Technical Reports', 'Search Claims', 'Company Administration', 'IF Applications', 'Resources', and 'Help'. The main content area has a yellow header with the following information: 'Round Trip Mileage: 388', 'Case #POU-12 | Request #26022', 'PO: N/A | On behalf of: Oklahoma Dept of Ag', 'Purchase Order Request', 'Request has not yet been submitted to OCC.', 'Status: Saved', and 'Total: \$27,185.35'. Below the header is a red warning box containing the text: 'The basic info section is required (on the Control Panel / Submit page). You must supply the Backup for Disposal Mileage (upload it as an attachment found on the Resources page or attach a copy of the page generated by a web mapping service (ie Google Maps, Bing Maps, etc)). You must supply the Backup for Driller Mileage (upload a copy of the page generated by a web mapping service (ie Google Maps, Bing Maps, etc)). You must supply the Site Map (Proposed Drilling Locations)(upload it as an attachment).The system indicates that your License is not currently valid; therefore, you may not submit this work request. If you believe this is an error, please contact the OCC office by phone.' Below the warning box is a list of items, each with a checkbox: 'Indemnity Fund (IF) Application', 'Initial Response, Abatement & Site Characterization (ISCR)', 'ORBCA Tier 1A', 'ORBCA Tier 2', '3-D Smear Zone Interpretation', 'Monitoring Well / Vapor Well / Soil Boring Installation & Direct Push Drilling', 'Sampling, Gauging, Indoor Air Sampling', 'Vacuum Extraction', 'Disposal', 'Public Notification', 'Site Closure Activities', 'Remedial Action Plan', 'Lab Analyses and Stand-Alone Time & Materials rates', and 'Additional Costs (Non Unit-Cost)'. A blue arrow points from the text above to the red warning box.

Home
Case Actions
Cases
Search Requests
Technical Reports
Search Claims
Company Administration
IF Applications
Resources 
Help

Resources

Guidance Documents

- [Environmental Company Walkthrough](#)
- [ORBCA Guidance Document](#)

Help

- [Bulk Upload of Groundwater Data Instructions](#)
- [Claims Help](#)
- [Corrective Action Portal FAQs](#)
- [Technical Report Help](#)

Narrative Templates

- [Final Closure](#)
- [High Vacuum Extraction](#)
- [ISCR](#)
- [Low Vacuum Extraction](#)
- [Monitoring](#)
- [ORBCA](#)
- [Public Participation](#)
- [SOR](#)
- [SOR Closure](#)
- [Well or Boring Installation](#)
- [Well Plugging](#)

Printable Technical Reports

- [Final Closure](#)
- [High Vacuum Extraction](#)
- [ISCR](#)
- [Low Vacuum Extraction](#)
- [Monitoring](#)
- [ORBCA](#)
- [Public Participation](#)
- [SOR](#)
- [SOR Closure](#)
- [Well or Boring Installation](#)
- [Well Plugging](#)

Technical Forms

- [Authorization for Document Submittal](#)
- [Backfill Worksheet \(Word Document, page 4\)](#)
- [Class V Injection Well Permit](#)
- [Disposal Mileage Worksheet](#)
- [Field Notifications](#)
- [Manual Free Product Recovery Excel Spreadsheet](#)
- [Non-Collusion Statement](#)
- [Online Access Authorization Form](#)
- [ORBCA Report Form](#)
- [PSTD Disposal/Recycler Report Form](#)

- Home
- Case Actions
- Cases
- Search Requests
- Technical Reports
--Required for PO # RP118217
- Report Activity
- Well/Boring Master List
- Water Supply Wells
- Public Participation**
- Attachments 3/3
- Search Claims
- Company Administration
- IF Applications
- Resources
- Help

Control Panel

[Save and Validate this Public Participation Report](#) [Submit Report](#)

Jump to Question: [1](#) [2](#) [3](#) [4](#) [5](#)

[Show/Hide Technical Report Quick Reference](#)
[Show/Hide Instructions and Resources](#)

**OKLAHOMA CORPORATION COMMISSION
PETROLEUM STORAGE TANK DIVISION
Public Participation Report**

1. What is the purpose for this public notification? (Check all that apply.)

- Notification to impacted/interested parties upon completion of plume delineation
- Notification to impacted/interested parties of pending remediation
- Notification to impacted/interested parties of pending case closure
- Notification to impacted/interested parties of an emergency situation
- Notification to impacted/interested parties of termination of approved remediation plan that fails to meet established cleanup levels
- Other:

[Scroll to the Top](#)

- Home
- Case Actions
- Cases
- Search Requests
- Technical Reports
--Required for PO # [REDACTED]
- Report Activity
- Well/Boring Master List
- Water Supply Wells
- Public Participation**
- Attachments 3/3
- Search Claims
- Company Administration
- IF Applications
- Resources
- Help

Control Panel

[Save and Validate this Public Participation Report](#) [Submit Report](#)

Jump to Question: [1](#) [2](#) [3](#) [4](#) [5](#)

[Show/Hide Technical Report Quick Reference](#)

 [Click here to print a copy of the draft report](#)

OCC Review Date: [REDACTED] Reviewed By: Mario Job
Case Number: [REDACTED] Report Number: [REDACTED]

Submitted to (PSTD P.E.A.): Mario Job

Facility
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

Consultant
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

Fax: [REDACTED]
Expiration Date: [REDACTED]

[Show/Hide Instructions and Resources](#)

PST Finder App

Find Facilities Quickly





OCC > Divisions > Petroleum Storage Tank

Divisions

- Administrative, Judicial & Legal Services
- Oklahoma Oil and Gas Conservation Division
- Petroleum Storage Tank**
 - PST Portal
 - Petroleum Storage Tank Finder
 - Forms and Guidance
 - Operator Training
 - Licenses
 - Storage Tank Advisory Council
 - Rules and Industry Standards
 - Release Reporting
 - EPA Reporting and Annual Reporting Requirements
 - PST Industry Meetings

Petroleum Storage Tank


PST Portal provides access to Compliance Forms, Images, Licensee Portal, and Operator Training

[PST Portal](#)


Select to view recordings of recent PST Industry Meetings and sign up for upcoming meetings

[PST Industry Meetings](#)

[OCC Petroleum Storage Tank Finder App](#)



OCC Licensed Tester Information



Divisions

Administrative, Judicial & Legal Services

Oklahoma Oil and Gas Conservation Division

Petroleum Storage Tank

PST Portal

Petroleum Storage Tank Finder

Forms and Guidance

Operator Training

Licenses

Storage Tank Advisory Council

PST Data Finder

The Oklahoma Corporation (OCC) Petroleum Storage Tank (PST) Finder is a GIS layer-rich searchable mapping application displaying available petroleum storage tank data curated by the OCC PST Division.

The PST Finder app provides detailed facility, tank, and release case data capable of managing, analyzing, and mapping functionality. Please refer to the user guide for more information and detailed guidance.

OCC PST Finder App

[OCC PST Finder App Manual](#)



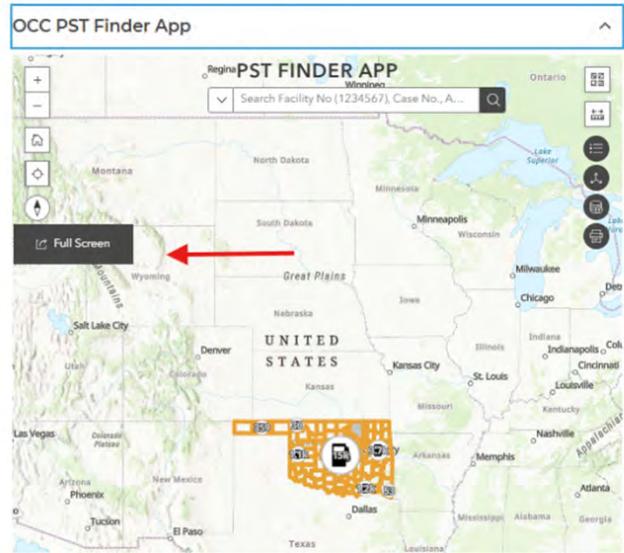
Divisions

- Administrative, Judicial & Legal Services
- Oklahoma Oil and Gas Conservation Division
- Petroleum Storage Tank
- PST Portal
- Petroleum Storage Tank Finder
- Forms and Guidance
- Operator Training
- Licenses
- Storage Tank Advisory Council
- Rules and Industry Standards
- Release Reporting
- EPA Reporting and Annual Reporting Requirements
- PST Industry Meetings

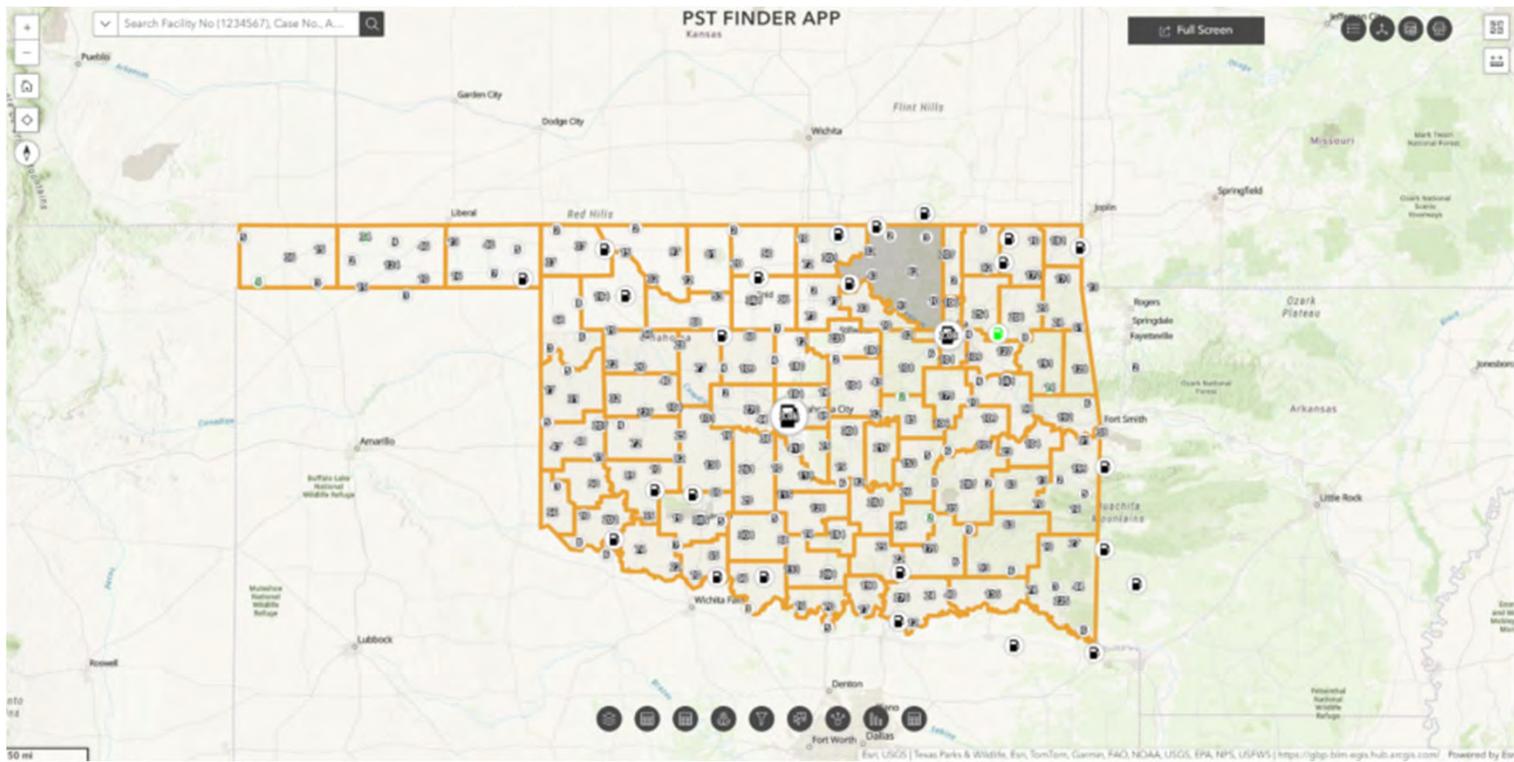
PST Data Finder

The Oklahoma Corporation (OCC) Petroleum Storage Tank (PST) Finder is a GIS layer-rich searchable mapping application displaying available petroleum storage tank data curated by the OCC PST Division.

The PST Finder app provides detailed facility, tank, and release case data capable of managing, analyzing, and mapping functionality. Please refer to the user guide for more information and detailed guidance.



<https://oklahoma.gov/occ/divisions/petroleum-storage-tank/pst-data-finder.html>



POU Project

What's been done & What's to come



POU Project Consultant List for SW0136M (Solicitation Number: EV00000603) as of 6/25/2025

Order Drawn	
1	Environmental Works Inc
2	Freese and Nichols Inc
3	Seneca Companies
4	<u>Ensolum</u> LLC
5	<u>WhiteRock</u> Resources
6	Envirotech Engineering & Consulting Inc
7	Associated Environmental Industries Corp.
8	Clearwater Environmental Services
9	Equus Environmental LLC
10	Summit Holdings Inc dba Oklahoma Environmental Services
11	Genesis Environmental Solutions LLC
12	Baber Environmental
13	Terracon Consultants Inc
14	<u>Stantech</u> LLC
15	GMR & Associates Inc
16	Environmental Solutions Specialists
17	The Phoenix Group Holding Company
18	Enercon Services Inc

Updates

What you really have been waiting for...



Changes to Unit Cost Rates

Injection Trailer rates -
An allowance of \$1,500 / day for use of an approved controlled low-pressure injection trailer capable of mixing & keeping the amendment in solution while being injected.



Added a Mileage input into the questionnaire for Drillers and Vacuum Trucks



CDL Vehicle - a new vehicle category has been added under the drop-down menu on the portal for mileage rates.

Backup documentation for Mileage

Phasing out the DOT Disposal Mileage Worksheet

Contractors Day | 11/21/25

Out with the OLD

DISPOSAL MILEAGE WORKSHEET	
<i>"Mileage over 100 Miles Roundtrip" includes distance from Transporter's yard to site to disposal facility to Transporter's yard. Appropriate mileage taken from Oklahoma Department of Transportation "Mileage Table".</i>	
	<i>Cities</i>
Transporter Yard Location (City):	
Disposal Facility Location (City):	
Facility Site Location (City):	
<i><u>Mileage (Enter Mileage for Total):</u></i>	<i><u>Mileage:</u></i>
<i>Transporter Yard to Site</i>	
<i>Site to Disposal Facility</i>	
<i>Disposal Facility to Transporter Yard</i>	
<i>Total Mileage</i>	<i>0</i>

In with the NEW

1h 5m 13 hr 3h 54m

- Will Rogers Memorial Office Building, 24
- Will Rogers International Airport
- Tinker Air Force Base, Oklahoma City, Ok
- Will Rogers Memorial Office Building, 24

Add destination

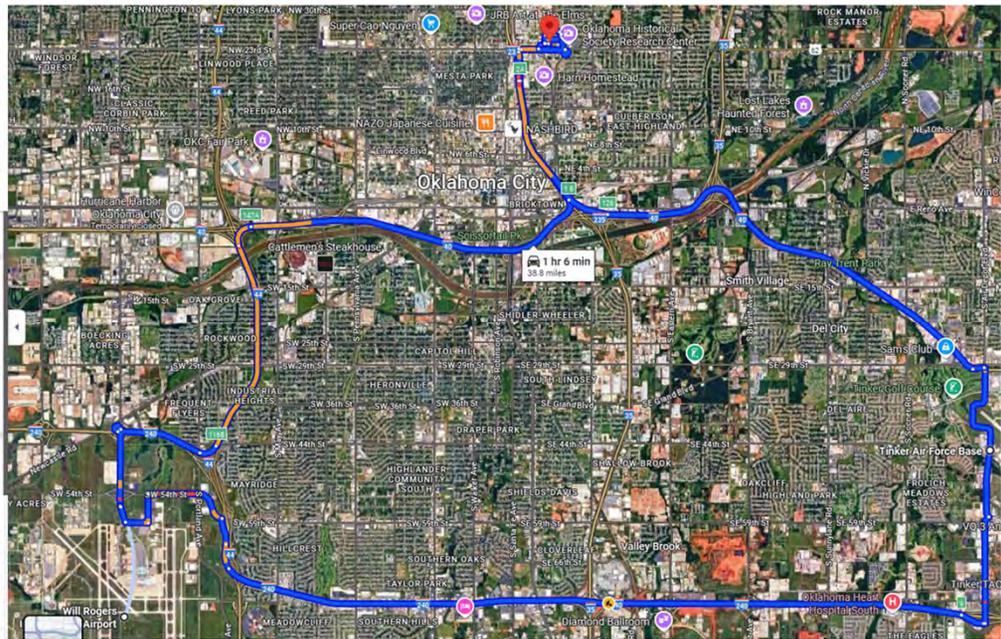
Options

Send directions to your phone Copy link

via I-40 W **1 hr 6 min**
Fastest route now due to traffic conditions 38.8 miles
⚠️ This route has restricted usage or private roads.
Details Preview

Explore nearby Will Rogers Memorial Office Building

- Harn Homestead 4.7 ★ (308)



Helpful Resources



- OCC website
<https://oklahoma.gov/occ/divisions/petroleum-storage-tank.html>
 - Rules and Industry Standards
 - Technical Forms
 - ORBCA Guidance
 - Field Sampling Guidance
- Continuing Education Units / Training – CLU-IN
<https://clu-in.org/training/>
- ITRC's website - <https://itrcweb.org/>
 - Guidance Documents related to LNAPL, Petroleum Vapor Intrusion, Remediation, etc.



Questions submitted prior to the 2025 Contractors Day

(Some were addressed at the event, and some were not.)

1. Can AI be incorporated into the ORBCA process? [Based on the current State policy, we can not use AI on State-owned equipment.](#)
2. In recent months, the portal has become harder to search and review records. Sometimes the facility or case file will only yield limited records. Can you address this issue? [Our software developers have been working on it and have fixed many of the issues. For a facility search that returns just 2 records, report the issue to Eric Houston or Terin Morris so it can be addressed. The PST Finder App is an alternative to accessing facility files.](#)
3. What is the policy for determining if a split case will be opened? [PSTD may activate a release case for each “occurrence” based on information received or observed, such as analytical results, free product, vapor readings, etc. In OAC 165:29-1-11, the definition of an “Occurrence means the release of a PSTD-regulated substance into the soil or groundwater. Each PSTD-regulated substance will be treated as one \(1\) occurrence regardless of the composition of the substance released. Separate occurrences of the same PSTD-regulated substance may be allowed if evidence establishes that the PSTD-regulated substance occurred in two \(2\) different tank systems locations, are separated by time, or both.”](#)
4. How is a determination made on when to open a split case? I have several consultants who have requested a split case be opened due to high levels of DRO when the active case is for GRO and vice versa. How do consultants know if they need to request a second case be opened? Do they have the authority to even request a split case be opened? Any guidance is appreciated. [See answer to question 3. If consultants want to suggest or recommend that an additional case be activated, they can email PSTD with their recommendation and rationale. PSTD will evaluate it and respond accordingly.](#)
5. What all is expected for \$1500 modified Tier 2? Just update the Tier 1A worksheets that calculate SSTLs and justify pathways, or completely update the original Tier 1A? [Typically, a modified ORBCA Tier 2 report includes updating Sections 9, 10, 11, and sometimes 7 from the ORBCA Tier 1A Report, along with an updated summary table of completed pathways and SSTLs.](#)
6. When are soil samples that are taken during a tank removal included as soil data for the facility in the ORBCA assessment? If the tank removal samples are taken within 2 years of the ORBCA assessment? 5 years? [Soil sample results from tank closure](#)

sampling may not be given as much weight as samples collected during the ORBCA assessment.

7. Can we remove the sampling requirement for tank pit water since the OCC doesn't consider the lab results in assessing the site for case activation? Although not typically considered when determining if a release case will be activated, PSTD believes results from sampling the tank pit water and the backfill from the tank pit during closure activities are important for determining disposal options or whether backfill materials may be returned to the tank pit.
8. Are "As-Built" drawings of tank pit and product line placement required to be submitted to the OCC during installations? If they are required, in what year was this requirement established? It would save tank removers and line testers a lot of extra work in locating buried lines. If they are not required, maybe they should be? As-builts are not required to be submitted. In approximately 2008, site maps were required to be submitted with new tank registrations.
9. What is the process for requesting Unit Cost rate increases? Based on our experience, we need an immediate Per Diem increase from \$184.50 to \$220 to cover hotels and meals across the state. Could mileage and per diem increases be automatically implemented annually per the regional federal guidelines? <https://www.gsa.gov/travel/plan-book/per-diem-rates> Anyone can request a rate increase. PSTD will consider and evaluate any reasonable request. If a decision is made to change the rate, PSTD will work to implement it. Regarding per diem, for now, PSTD has decided to continue using the current unit cost. PSTD will consider, on a case-by-case basis, whether additional reimbursement is warranted if the consultant provides additional documentation (e.g., hotel receipts, etc.), but the reimbursement will not exceed federal guidelines.
10. We would also like to request a 20% rate increase across all labor categories effective April 2026. PSTD increased all unit rates by 25% in April of 2022, so we will need additional justification before considering making changes at this time.
11. What activities qualify the use of the following Unit Cost rates? Senior Hydrologist, Engineer. These job tasks are typically for highly qualified personnel performing design and/or oversight for complex tasks and may require additional justification, documentation, and/or pre-approval.
12. Under what circumstances is it appropriate to propose a RAP and have it be approved? Typically, when it is necessary to propose a remediation system or performance-based remediation.

13. Under what circumstances can a remediation design fee of 15% of the remediation cost be requested/approved? [Currently, there isn't an approved 15% remediation design fee in rule or guidance.](#)
14. How are OCC PSTD technical policy and procedure updates communicated internally? If memorialized in writing, could this be shared with the consulting community so the PEA's can apply them consistently as well as the licensed consultants? [PSTD's rules, policies, and guidance documents can be found on the OCC PSTD website and/or on the Corrective Action Portal.](#)
15. How are air filter costs maintained once a case closes? [Once a release case is closed, no additional costs are allowed. Air filters left at a site after a release case is closed would be a convenience for the site and shouldn't be considered as ongoing remediation.](#)
16. Why are supporting invoices being requested for unit cost items? This has happened several times in the past few months. [Depending on the circumstances, PSTD may require documentation to verify quantities, costs, etc. of any item being reimbursed.](#)