

Final
October 9, 2017

2017 Land Use Control Inspection Technical Memorandum

Fleet Logistics Center Puget Sound Manchester Fuel Depot

Manchester, Washington

Department of the Navy Naval Facilities Engineering Command Northwest 1101 Tautog Circle Silverdale, WA 98315

Contract No. N44255-14-D-9013, Delivery Order No. N4425517F4031



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FINAL 2017 LAND USE CONTROL INSPECTION TECHNICAL MEMORANDUM FLEET LOGISTICS CENTER PUGET SOUND MANCHESTER FUEL DEPOT MANCHESTER, WASHINGTON

Prepared by Battelle Columbus, Ohio

Prepared for Naval Facilities Engineering Command Northwest Silverdale, Washington

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(MFD), Manchester, Washington

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the 2017 inspection of land use controls at Sites 302, 303, 304 and Tank 50 at MFD. This document was prepared by Battelle under Contract No. N44255-14-D-9013, Delivery Order No. N4425517F4031 for Naval Facilities Engineering Command

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ACRONYMS AND ABBREVIATIONS

Ecology Washington State Department of Ecology

EPA Environmental Protection Agency

GPS global positioning system

LUC land use control

MFD Manchester Fuel Depot MTCA Model Toxic Control Act

NAVFAC Naval Facilities Engineering Command

NFA no further action

PCB polychlorinated biphenyl

PVC polyvinyl chloride

UST underground storage tank

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EXECUTIVE SUMMARY

This Land Use Control (LUC) Inspection Technical Memorandum describes the observations and subsequent recommendations from the LUC inspections conducted in August 2017 at specified sites of Fleet Logistics Center Puget Sound Manchester Fuel Depot (MFD), Manchester, Washington.

LUCs are required at several sites of MFD due to contaminated soil and/or groundwater that prevent unlimited use and unrestricted exposures, as detailed in the *Land Use Control Plan for Sites 302, 303, 304 and Tank 50, Naval Base Kitsap Manchester, Manchester, Washington* (Battelle, 2016b). These sites include:

- Site 302 Polychlorinated Biphenyl (PCB) Site
- Site 303 D-Tunnel Tanks
- Site 304 Industrial Area
- Tank 50 Underground Storage Tank (UST) Release Site

The LUC inspections of Sites 302, 303, 304 and Tank 50 at MFD were conducted from August 29 through 30, 2017 and in accordance with the procedures detailed in the *Land Use Control Plan for Sites 302, 303, 304 and Tank 50, Naval Base Kitsap Manchester, Manchester, Washington* (Battelle, 2016b). The annual LUC inspections included a field inspection, determination of the current land use, document review (e.g., administrative and institutional controls in place), and condition assessment of engineering controls such as fencing, gates, signage, monitoring wells, and soil covers. Table ES-1 summarizes the findings from the LUC inspection and subsequent recommendations.

In general, the LUCs in place at each specified site of MFD remain effective in the protection of human health and the environment. The 2017 LUC inspections were the first inspections to be conducted at Sites 302, 303, 304 and Tank 50 of MFD. As such, it is recommended that the LUC inspections continue on an annual basis to evaluate if any changes or activities impact effectiveness of the LUCs relative to the condition and recommendations from August 2017.

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Table ES-1. Summary of Findings and Recommendations from the 2017 LUC Inspections

Findings	Recommendations					
Site 302 - PCB Site						
There is no LUC signage on the primary gate/entrance on the south side of the site (Photo #124).	Add "Restricted Area" or LUC signage on the primary gate/entrance along the south side of the site.					
The central portion of the site is covered with large, older stockpiles of soil and debris (Photo #126).	Properly characterize the excess soil placed in the central portion of the site. If the soil meets Model Toxic Control Act (MTCA) Method A levels, then use to regrade site and develop vegetative cover. If the soil exceeds MTCA Method A levels, then properly transport and dispose of soil offsite, place clean topsoil cap, and develop vegetative cover as recommended in the <i>Third Five-Year Review</i> (NAVFAC Northwest, 2015).					
The gated entrance on the north side of the site is unlocked, open, and has no LUC signage (Photo #127).	Close, lock, and add LUC signage to the gated entrance on the north side of the site.					
	Site 303 - D-Tunnel Tanks					
An unmarked stockpile of soil covered by black poly sheeting in the northwest corner of the construction laydown area southwest of Tank 24 (Photo #21).	Confirm soil stockpile is authorized reusable material and is located in an approved staging area. Post approval permit from MFD Environmental for staging material at job site.					
An unmarked stockpile of soil half-covered by black poly sheeting in the along the eastern boundary of the construction laydown area southwest of Tank 24 (Photo #22).	Confirm soil stockpile is authorized reusable material and is located in an approved staging area. Post approval permit from MFD Environmental for staging material at job site.					
Old stockpile of soil on a tarp and surrounded by absorbent wattles in the laydown area north of Tank 29 (Photo #66).	Properly characterize, transport, and dispose of (off site) the soil.					
Both vapor monitoring well MW-2 at Tank 25 and groundwater monitoring well OW-2 were found to be in poor condition with only the 2-inch PVC piping or casing exposed at the ground surface (Photos #38 and #97, respectively).	As recommended in the Well Rehabilitation and Decommissioning Study, Fleet Logistics Center Puget Sound Manchester Fuel Depot, Manchester, Washington (Battelle, 2017), vapor monitoring well MW-2 at Tank 25 and groundwater monitoring well OW-2 along with all other monitoring wells within Site 303 will be decommissioned due to the upcoming construction activities. Therefore, it is recommended that the monitoring wells are no longer inspected for general condition and the LUC for protection of existing monitoring wells be discontinued at Site 303. A general condition assessment, depth to water measurement, and depth to product measurement will be collected immediately prior to properly decommissioning each monitoring well.					

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Table ES-1. Summary of Findings and Recommendations from the 2017 LUC Inspections (continued)

Findings	Recommendations					
Site 304 - Industrial Area						
There is no LUC signage at the general entry way to Site 304 (Photo #104).	Add LUC signage at the general entry way to the site.					
There is construction of a trench box for a fuel line (i.e., excavation activities; Photo #105).	Post approval permit from MFD Environmental for construction of trench box at job site.					
	Tank 50 - UST Release Site					
There is no LUC signage at the general entry way to Tank 50 (Photo #114).	Add LUC signage at the general entry way to the site, as it is noted in the Well Installation and Sampling and Analysis Tank No. 50 Fuel Hydrocarbon Leak Assessment, Manchester Fleet and Industrial Supply Center, Manchester, Washington (Hart Crowser, 1998).					

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1.0 INTRODUCTION

This Land Use Control (LUC) Inspection Technical Memorandum describes the observations and subsequent recommendations from the LUC inspections conducted in August 2017 at specified sites of Fleet Logistics Center Puget Sound Manchester Fuel Depot (MFD), Manchester, Washington. This report was prepared by Battelle for Naval Facilities Engineering Command (NAVFAC) Northwest under Contract No. N44255-14-D-9013, Delivery Order No. N4425517F4031.

LUCs are required at several sites of MFD due to contaminated soil and/or groundwater that prevent unlimited use and unrestricted exposures, as detailed in the *Land Use Control Plan for Sites 302, 303, 304 and Tank 50, Naval Base Kitsap Manchester, Manchester, Washington* (Battelle, 2016b). These sites include:

- Site 302 Polychlorinated Biphenyl (PCB) Site
- Site 303 D-Tunnel Tanks
- Site 304 Industrial Area
- Tank 50 Underground Storage Tank (UST) Release Site

The LUC inspections were conducted in accordance with the procedures detailed in the Land Use Control Plan for Sites 302, 303, 304 and Tank 50, Naval Base Kitsap Manchester, Manchester, Washington (Battelle, 2016b). The LUC inspection procedures provide a means to verify that the required LUCs ensure protection of human health and the environment. The 2017 LUC inspections are the first inspections to occur at Sites 302, 303, 304 and Tank 50 since issuance of the Land Use Control Plan for Sites 302, 303, 304 and Tank 50, Naval Base Kitsap Manchester, Manchester, Washington (Battelle, 2016b).

1.1 Purpose

The purpose of the LUC inspections are to:

- 1. ensure the effectiveness of the LUCs in the protection of human health and the environment; and
- 2. assist in identifying recommendations for corrective/additional action(s) to ensure that the LUCs continue to be effective at MFD.

This technical memorandum: 1) provides documentation that the LUCs have not been modified or terminated or land use had not been modified (without regulatory approval) at any site; and 2) communicates the status of the LUCs to the project stakeholders (i.e., Washington State Department of Ecology [Ecology], Environmental Protection Agency [EPA], and Suquamish Tribe).

1.2 Facility Description

1.2.1 Location

MFD is located less than 1 mile southwest of Bainbridge Island, approximately 3.5 miles northeast of the town of Port Orchard, and less than 1 mile north of the town of Manchester. The facility is situated on a small peninsula on the larger Kitsap Peninsula. This peninsula is located on the eastern edge of the larger Kitsap Peninsula and adjacent to Puget Sound to the east and Clam Bay to the north. MFD is divided into

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an eastern and western side of the facility by Little Clam Bay with these sides of the facility being connected by a 100-ft wide causeway. Figure 1 depicts the vicinity map for MFD.

1.2.2 Current Use

In the early 1940s (at the beginning of World War II), MFD was developed into a key fuel depot and remains a fuel depot for the Navy. The majority of the facility is currently used for fuel storage, including underground and aboveground petroleum storage tanks, associated pipelines, and a fuel pier. The remainder of the facility is dedicated to an industrial area with support and administrative buildings located adjacent to the fuel pier. Fuel products that have been or are currently stored at the fuel depot include Navy Special Fuel (No. 6 fuel oil [Bunker C]), marine diesel fuel, jet fuel, lubricant oil, and aviation gasoline.

Several areas of the facility have been impacted by past releases of petroleum products which have required remedial investigations and corrective actions. These areas include Site 302 (i.e., PCB Site, which has also been a dumping ground for various industrial wastes), Site 303 (i.e., D-Tunnel Tanks), Site 304 (i.e., Industrial Area), and Tank 50 (i.e., UST Release Site) and are further described in the *Land Use Control Plan for Sites 302, 303, 304 and Tank 50, Naval Base Kitsap Manchester, Manchester, Washington* (Battelle, 2016b). A site plan of MFD depicting the fuel storage, industrial area, and locations of these specific areas is shown in Figure 2. Sites 302, 303, 304 and Tank 50 have received no further action (NFA) status and the resulting letters from Ecology state that the sites are "either properly remediated or do not pose a risk to human health or the environment" based on the current and future land use (Ecology, 1998, 2000, and 2001). However, LUC requirements are identified or referred to in the NFA letters to ensure continued protection of human health and the environment.

1.3 Technical Memorandum Organization and Content

This technical memorandum includes the following sections:

- <u>Section 1.0 Introduction:</u> presents the purpose of the technical memorandum and the facility description, including location and current use.
- <u>Section 2.0 LUC Inspection Approach and Findings:</u> describes the approach to the LUC inspections and findings/observations from the LUC inspections at MFD.
- <u>Section 3.0 Conclusions and Recommendations:</u> presents a summary of findings/observations, conclusions and subsequent recommendations for MFD.
- <u>Section 4.0 References:</u> provides a full and complete list of documents cited within this technical memorandum.

The following appendices to this technical memorandum provide additional documentation of the completed 2017 LUC inspections:

- Appendix A LUC Inspection Checklists
- Appendix B Monitoring Well Inspection Checklists
- Appendix C Field Notes
- Appendix D Photographic Log

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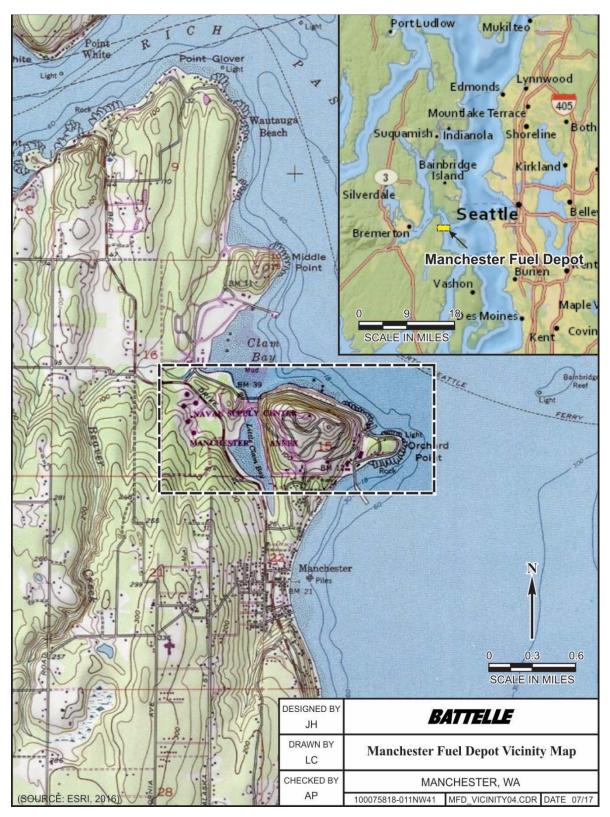


Figure 1. Manchester Fuel Depot Vicinity Map

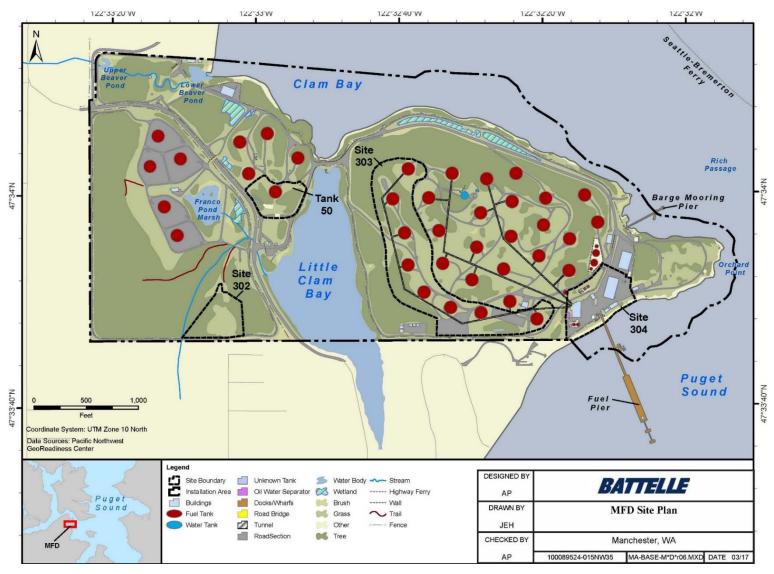


Figure 2. MFD Site Plan

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2.0 LUC INSPECTION APPROACH AND FINDINGS

This section presents the approach for the LUC inspections and the findings/observations from the LUC inspections of Sites 302, 303, 304 and Tank 50 at MFD.

2.1 LUC Inspection Approach

The LUC inspections of Sites 302, 303, 304 and Tank 50 at MFD were conducted from August 29 through 30, 2017 and in accordance with the procedures detailed in the *Land Use Control Plan for Sites* 302, 303, 304 and Tank 50, Naval Base Kitsap Manchester, Manchester, Washington (Battelle, 2016b).

The annual LUC inspections included a field inspection, determination of the current land use, document review (e.g., administrative and institutional controls in place), and condition assessment of engineering controls such as fencing, gates, signage, monitoring wells, and soil covers.

The site-specific LUC Inspection Checklists (see Appendix A) and Monitoring Well Inspection Checklists (see Appendix B) were completed and used as tools to guide the annual LUC inspections. In addition, field notes and a photographic log were collected to document the findings/observations of the field inspection and are presented as Appendices C and D, respectively, in this technical memorandum.

2.2 LUC Inspection Findings

2.2.1 Site 302 – PCB Site

Site 302 is a 1.4-acre area located in the southwest portion of MFD (see Figures 2 and 3). The site was used as a dumping area for ship bilge waste, transformer oil, and other petroleum waste from local naval facilities from about 1955 through 1976. No estimate of the volume of waste disposed at the site is available. PCBs were identified as a contaminant of concern at Site 302. On August 30, 2017, Site 302 was inspected with respect to its site-specific LUCs (Battelle, 2016b):

LUC Descriptions

- Ensure that site signage is readable and adequate.
- Ensure that land use remains for industrial purposes.
- Ensure that there has been no unauthorized soil excavation or disturbance.
- Ensure that there has been no unauthorized placement of excess soil from another location.
- Ensure integrity of the soil cover vegetation, so that any excavation or improper disposal is apparent.
- Ensure that any soil excavated from the site is properly characterized and disposed offsite and that on-site workers are protected during such activities.
- Ensure that site fencing is intact and that gates are secured and locked.

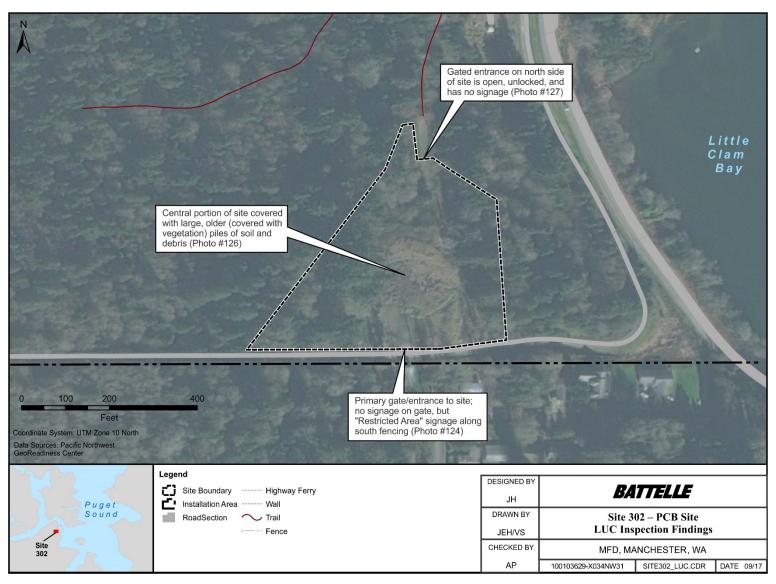


Figure 3. Site 302 – PCB Site LUC Inspection Findings

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During the LUC inspection, it was determined that land use remains for industrial purposes and there has been no unauthorized soil excavation or disturbance. The most salient findings were:

- 1. There is no LUC signage on the primary gate/entrance on the south side of the site (Photo #124). However, there is "Restricted Area" signage along the southern border fencing of the site.
- 2. The central portion of the site is covered with large, older stockpiles of soil and debris (Photo #126).
- 3. The gated entrance on the north side of the site is unlocked, open, and has no LUC signage (Photo #127).

The locations of these findings are depicted in Figure 3. The LUC inspection checklist for Site 302 was completed based on these findings/observations and is provided in Appendix A. The field notes and photographs from Site 302 are provided in Appendices C and D, respectively.

2.2.2 Site 303 – D-Tunnel Tanks

Site 303 consists of eight 20,000 to 50,000-barrel (840,000 to 2,100,000 gallons) concrete USTs used to store marine diesel fuel (see Figures 2 and 4). The current Naval fuel stored and dispensed at MFD is designated as F-76. The USTs are located adjacent to the D-tunnel line, which extends from Tank 30 to Building 12 in the Industrial Area (i.e., Site 304) as shown on Figure 4. On August 29 and 30, 2017, Site 303 was inspected with respect to its site-specific LUCs (Battelle, 2016b):

LUC Descriptions

- Ensure that land use remains for industrial purposes. Coordinate with Ecology prior to change in property ownership or land use concerning the need for remedial actions.
- Ensure that warnings are posted for workers to guard against exposure to residual petroleum contaminated soil.
- Identify remaining areas of concern on facility maps and specify in facility excavation permit instruction.
- Ensure no production wells are installed and groundwater is not used except for monitoring and/or remediation.
- Protect existing vapor monitoring wells until formally abandoned.
- Ensure that there has been no unauthorized soil excavation or disturbance.
- Confine authorized reusable material* to approved staging area.
- Ensure that any soil excavated from the site is properly characterized and disposed offsite and that on-site workers are protected during such activities.

^{*}Those materials for which on-site placement has been coordinated with the Ecology Cleanup Project Manager and that have been characterized in collaboration with the Ecology Cleanup Project Manager.

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During the LUC inspection, it was determined that land use remains for industrial purposes; warnings are posted for workers; remaining areas of concern are identified on facility maps and specified in facility permit instruction (i.e., as it was a recommended update for the Contractor Environmental and Safety Guide [Battelle, 2016a]); no production wells were installed and groundwater was not used (except for monitoring and/or remediation); and there has been no unauthorized soil excavation or disturbance. The most salient site findings were:

- 1. An unmarked stockpile of soil covered by black poly sheeting in the northwest corner of the construction laydown area southwest of Tank 24 (Photo #21).
- 2. An unmarked stockpile of soil half-covered by black poly sheeting along the eastern boundary of the construction laydown area southwest of Tank 24 (Photo #22).
- 3. Old stockpile of soil on a tarp and surrounded by absorbent wattles in the laydown area north of Tank 29 (Photo #66).

The locations of these findings are depicted in Figure 4. The LUC inspection checklist for Site 303 was completed based on these findings/observations and is provided in Appendix A. The field notes and photographs from Site 303 are provided in Appendices C and D, respectively. It was also noted that new LUC signage warning against unauthorized excavation was placed at Tanks 22, 24, 25, 26, 27, and 28. Previous LUC signage is still in place at Tanks 29 and 30. To note, the signage at Tank 30 is located at the access road to the tank, not at the tank itself as with other signage (Photo #83). Although not specifically related to the LUCs, there are 17 inadequately labeled 55-gallon drums located along the southern boundary of the construction laydown area southwest of Tank 24 (Photo #20).

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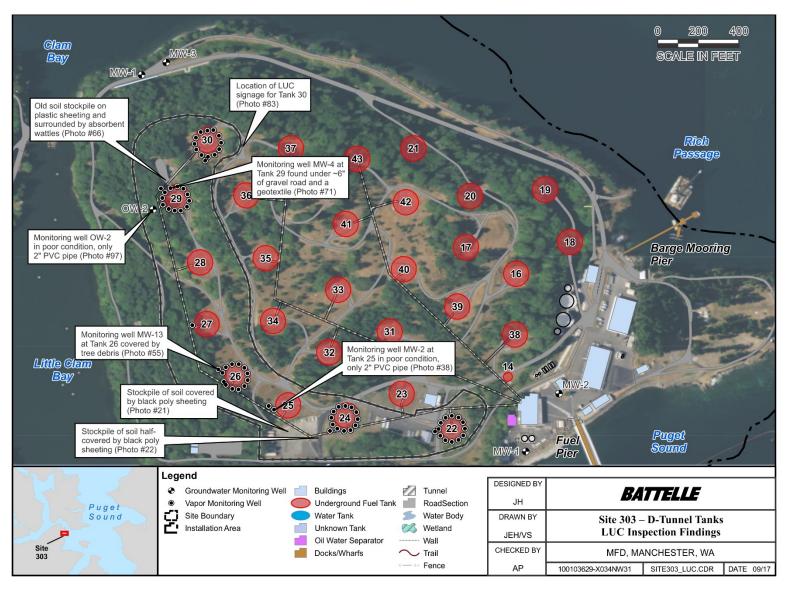


Figure 4. Site 303 – D-Tunnel Tanks LUC Inspection Findings

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In addition, monitoring wells at Site 303 were inspected for general condition in accordance with the Monitoring Well Inspection Checklists (see Appendix B). Based on the findings presented in the *Well Rehabilitation and Decommissioning Study, Fleet Logistics Center Puget Sound Manchester Fuel Depot, Manchester, Washington* (Battelle, 2017), there is a total of 68 monitoring wells (i.e., one groundwater monitoring well and 67 vapor monitoring wells) found and directly associated with Site 303. Table 1 provides a summary of the inspection findings/observations at each monitoring well.

Table 1. Summary of Monitoring Well Condition Assessment at Site 303

Well ID	Northing	Easting	General Condition	Photo #	Comments from 2017 Inspections			
	Tank 22 – Vapor Monitoring Wells							
MW-1	64076.97	371639.50	•	4	Tubing from vapor monitoring system is visible.			
MW-2	64074.09	371649.60	•	5	Buried under grass.			
MW-3	60466.49	371656.40	0	6	Water in monument.			
MW-4	64056.50	371658.80	•	7	-			
MW-5	64046.46	371656.10	NA	8	Monument filled with water, preventing well condition determination.			
MW-6	64040.00	371648.50	NA	9	Monument filled with water, preventing well condition determination.			
MW-7	64037.05	371638.40	•	10	Cap removed from well casing.			
MW-8	64040.08	371628.60	•	11	Cannot view well casing, debris inside monument.			
MW-9	64047.08	371621.30	•	12	-			
MW-10	64057.52	371618.80	•	13	Located along access road.			
MW-11	64066.78	371622.40	•	14	Located along roadside. Cannot view well casing, water in annular spacing.			
MW-12	64074.14	371629.80	•	15	-			
MW-13	64053.92	371613.30	•	16	Water in monument up to top of casing. Adjacent to Soil Sentry System.			
			Tank 24 – Vapo	r Monitorii	ng Wells			
MW-1	64058.55	371474.50	•	23	-			
MW-2	64062.05	371464.60	•	24	Buried under ~3 inches of dirt/soil.			
MW-3	64068.96	371458.00	•	25	Well ID plate not affixed to well lid. Buried under ~1 inch of dirt/soil.			
MW-4	64078.83	371456.20	•	26	-			
MW-5	64088.17	371459.80	•	27	Interior lining of monument deteriorating.			
MW-6	64095.43	371467.60	•	28	Located in middle of road. Well ~3 feet deep in monument.			
MW-7	64096.43	371477.90	NA	29	Well fully submerged under water, preventing well condition determination. Some sheen in water.			
MW-8	64093.93	371487.30	•	30	Water in monument.			
MW-9	64086.39	371494.40	•	31	-			
MW-10	64075.89	371496.20	•	32	-			
MW-11	64066.30	371492.50	•	33	-			
MW-12	64059.43	371484.70	•	34	-			
MW-13	64058.99	371453.40	•	35	Interior lining laying within monument.			

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Table 1. Summary of Monitoring Well Condition Assessment at Site 303 (continued)

	Table 1. Summary of Monitoring Well Condition Assessment at Site 303 (continued)								
Well ID	Northing	Easting	General Condition	Photo #	Comments from 2017 Inspections				
	Tank 25 – Vapor Monitoring Wells								
MW-2	64093.78	371368.90	0	38	No lid or monument to well, only 2-inch PVC piping exposed at ground surface.				
MW-13	64099.57	371361.00	•	39	Located in tall grass around tank.				
	Tank 26 – Vapor Monitoring Wells								
MW-1	64133.33	371296.60	•	43	_				
MW-2	64138.18	371294.10	•	44	Well is ~2 feet deep in monument.				
MW-3	64151.77	371292.30	•	45	Water in monument.				
MW-4	64160.43	371297.70	•	46	Well covered by brush.				
MW-5	64164.62	371306.90	•	47	Placed well cap in well casing.				
MW-6	64164.28	371317.20	•	48	Well located in tall grass surrounding tank.				
MW-7	64158.49	371325.60	•	49	Well located in tall grass surrounding tank.				
MW-8	64149.93	371330.30	•	50	Well ID plate not affixed to well lid. Well in middle of road with overgrown vegetation.				
MW-9	64139.62	371330.10	•	51	Water in monument.				
MW-10	64131.02	371324.80	•	52	Water in monument, slightly above casing.				
MW-11	64126.11	371315.70	•	53	Water in monument to top of casing.				
MW-12	64126.98	371306.30	•	54	Spray foam inside well monument.				
MW-13	64157.40	371286.10	NA	55	Used GPS coordinates and could not locate well. Most likely covered by recently cut trees and overgrowth.				
			Tank 27 – Vapo	r Monitorii					
MW-1	64225.46	371248.00	•	58	Flex tube missing, well not connected to Soil Sentry System.				
			Tank 29 – Vapo	r Monitorii					
MW-1	64409.96	371208.60	NA	68	Well fully submerged under water, preventing well condition determination.				
MW-2	64420.01	371207.90	NA	69	Well fully submerged under water, preventing well condition determination.				
MW-3	64428.66	371212.00	NA	70	Well fully submerged under water, preventing well condition determination.				
MW-4	64049.98	371595.29	•	71, 72	Well ID plate not affixed to well lid. Well found under ~6 inches of gravel access road and geotextile.				
MW-5	64436.86	371231.60	•	73	Water in monument.				
MW-6	64433.18	371240.40	NA	74	Well fully submerged under water, preventing well condition determination.				
MW-7	64424.52	371246.70	•	75	Water in monument.				
MW-8	64414.50	371248.60	•	76	Water in monument to top of casing.				
MW-9	64405.98	371245.10	NA	77	Well fully submerged under water, preventing well condition determination. Sheen on water.				
MW-10	64400.01	371235.80	NA	78	Well fully submerged under water, preventing well condition determination.				
MW-11	64403.29	371217.30	•	79	Water in monument.				
MW-12	64403.29	371217.30	•	80	Water in monument.				
MW-13	64434.50	371206.20	•	81	Located in brush. Water in monument.				

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Table 1. Summary of Monitoring Well Condition Assessment at Site 303 (continued)

Well ID	Northing	Easting	General Condition	Photo #	Comments from 2017 Inspections				
	Tank 30 – Vapor Monitoring Wells								
MW-1	64492.22	371261.60	•	84	Water in monument to top of casing. Well ID plate not affixed to well lid.				
MW-2	64500.73	371259.50	•	85	Located in tall grass surrounding tank.				
MW-3	64510.34	371261.90	NA	86	Well fully submerged under water, preventing well condition determination. Located in tall grass surrounding tank. Well ID plate is not affixed to well lid.				
MW-4	64518.55	371269.10	•	87	Water in monument to top of casing. Located in tall grass surrounding tank. Well ID plate not affixed to well lid.				
MW-5	64520.31	371279.30	•	88	Well fully submerged under water, but well cap and casing are visible. Sheen on water.				
MW-6	64520.81	371288.40	NA	89	Well fully submerged under water, preventing well condition determination.				
MW-7	64512.29	371296.70	NA	90	Well fully submerged under water, preventing well condition determination.				
MW-8	64501.52	371299.70	•	91	-				
MW-9	64491.88	371296.80	•	92	Water in monument.				
MW-10	64483.62	371289.70	•	93	Water in monument.				
MW-11	64480.59	371279.40	•	94	Water in monument.				
MW-12	64483.55	371269.50	•	95	Water in monument.				
MW-13	64474.81	371274.90	•	96	Located in tall grass surrounding tank.				
	West of Tank 29 – Groundwater Monitoring Well								
OW-2	64402.99	371193.60	0	97	Only 2-inch PVC piping exposed at ground surface (i.e., ~8 inches).				

ID – identification; PVC – polyvinyl chloride; GPS – global positioning system

During the LUC inspection, MW-4 at Tank 29 was found and inspected (see Table 1, Appendix B, and Photo #71), a vapor monitoring well which was not found during the Well Rehabilitation and Decommissioning Study (Battelle, 2017). Monitoring well MW-13 at Tank 26 could not be found and inspected, most likely because it was covered by recent tree and overgrowth cutting debris (Photo #55). Both vapor monitoring well MW-2 at Tank 25 and groundwater monitoring well OW-2 were found to be in poor condition with only the 2-inch polyvinyl chloride (PVC) piping or casing exposed at the ground surface (Photos #38 and #97, respectively). Although not directly related to the LUCs at Site 303, it should be noted that sheen was observed in the water in monuments for MW-7 at Tank 24, MW-9 at Tank 29, and MW-5 at Tank 30.

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Section 2.0

2.2.3 Site 304 – Industrial Area

Site 304 (Industrial Area) is located in the eastern portion of MFD as shown in Figures 2 and 5. It is comprised of maintenance, administration, fuel pumping, and water treatment buildings. Site 304 is the central transfer point for most of the petroleum products stored at MFD. Petroleum products (including marine diesel, jet fuels, aviation gasoline, and lube oil) are transported through a network of pipelines running from the fuel pier to storage tanks located throughout the facility. On August 30, 2017, Site 304 was inspected with respect to its site-specific LUCs (Battelle, 2016b):

LUC Descriptions

- Ensure that land use remains for industrial purposes. Coordinate with Ecology prior to change in property ownership or land use concerning the need for remedial actions.
- Ensure that warnings are posted for workers to guard against exposure to residual petroleum contaminated soil.
- Identify remaining areas of concern on facility maps and specify in facility excavation permit instruction.
- Ensure no production wells are installed and groundwater is not used except for monitoring and/or remediation.
- Protect existing monitoring wells until formally abandoned.
- Ensure that there has been no unauthorized soil excavation or disturbance.
- Ensure that any soil excavated from the site is properly characterized and disposed offsite and that on-site workers are protected during such activities.

During the LUC inspection, it was determined that land use remains for industrial purposes; remaining areas of concern are identified on facility maps and specified in facility permit instruction (i.e., as it was a recommended update for the Contractor Environmental and Safety Guide [Battelle, 2016a]); no production wells were installed and groundwater was not used (except for monitoring and/or remediation); monitoring wells have been protected; and there has been no unauthorized soil excavation or disturbance. The most salient site findings were:

- 1. There is no LUC signage at the general entry way to Site 304 (Photo #104).
- 2. There is construction of a trench box for a fuel line (i.e., excavation activities; Photo #105). However, given the specifications/requirements for this type of work, it is authorized.

The locations of these findings are depicted in Figure 5. The LUC inspection checklist for Site 304 was completed based on these findings/observations and is provided in Appendix A. The field notes and photographs from Site 304 are provided in Appendices C and D, respectively.

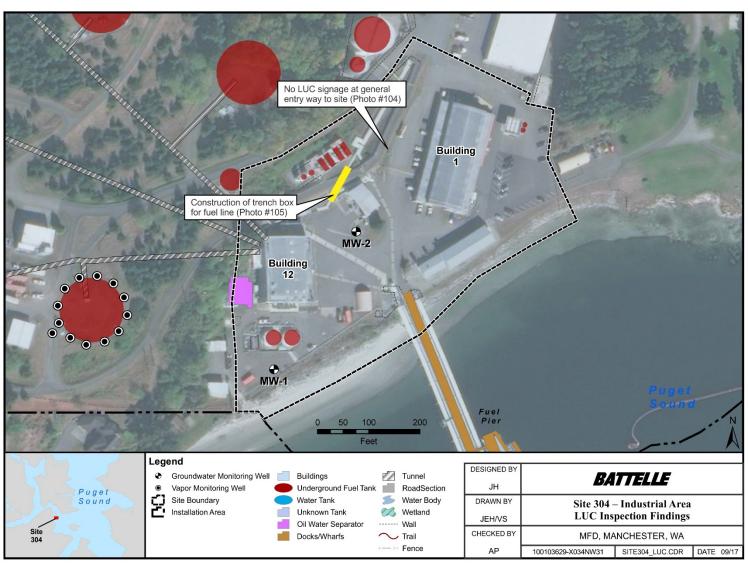


Figure 5. Site 304 – Industrial Area LUC Inspection Findings

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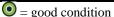
Section 2.0

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In addition, monitoring wells at Site 304 were inspected for general condition in accordance with the Monitoring Well Inspection Checklists (see Appendix B). Based on the findings presented in the *Well Rehabilitation and Decommissioning Study, Fleet Logistics Center Puget Sound Manchester Fuel Depot, Manchester, Washington* (Battelle, 2017), there is a total of two groundwater monitoring wells remaining at Site 304. Table 2 provides a summary of the inspection findings/observations at each monitoring well.

Table 2. Summary of Monitoring Well Condition Assessment at Site 304

Well ID	Northing	Easting	General Condition	Photo #	Comments from 2017 Inspections	
	Site 304 – Industrial Area					
MW-1	64019.42	371750.40	•	109	Lock not on well cap.	
MW-2	64105.94	371803.60	•	110	Lock on well cap.	



Both groundwater monitoring wells MW-1 and MW-2 are in good, operable condition.

2.2.4 Tank 50 – UST Release Site

Tank 50 is the southernmost of a set of four USTs built on the top of a small knoll located on the west side of Little Clam Bay (see Figures 2 and 6). The tank is believed to have been constructed in the early 1950s and is a steel cylinder approximately 100 feet in diameter and 22 feet tall with a capacity of approximately 27,000 barrels (1.1 million gallons). On August 30, 2017, Tank 50 was inspected with respect to its site-specific LUCs (Battelle, 2016b):

LUC Descriptions

- Ensure that warnings are posted for workers to guard against exposure to residual petroleum contaminated soil.
- Identify remaining areas of concern on facility maps and specify in facility excavation permit instruction.
- Ensure that land use remains for industrial purposes. Coordinate with Ecology prior to change in property ownership or land use concerning the need for remedial actions.
- Ensure no production wells are installed and groundwater is not used except for monitoring and/or remediation.
- Protect existing monitoring wells until formally abandoned.
- Ensure that there has been no unauthorized soil excavation or disturbance.
- Ensure that any soil excavated from the site is properly characterized and disposed offsite and that on-site workers are protected during such activities.

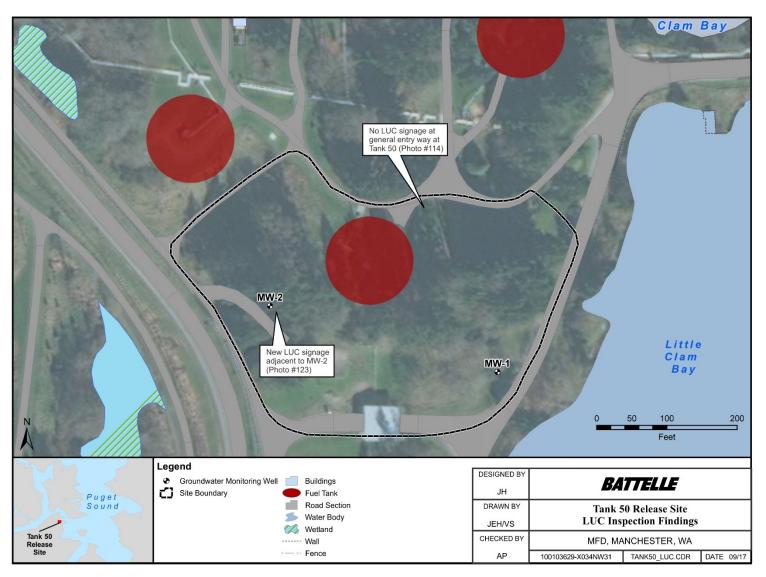


Figure 6. Tank 50 Release Site LUC Inspection Findings

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Section 2.0

During the LUC inspection, it was determined that remaining areas of concern are identified on facility maps and specified in facility permit instruction (i.e., as it was a recommended update for the Contractor Environmental and Safety Guide [Battelle, 2016a]); land use remains for industrial purposes; no production wells were installed and groundwater was not used (except for monitoring and/or remediation); monitoring wells have been protected; and there has been no unauthorized soil excavation or disturbance. The most salient site finding was:

1. There is no LUC signage at the general entry way to Tank 50 (Photo #114). However, new LUC signage has been installed adjacent to monitoring well MW-2 (Photo #123).

The location of this finding is depicted in Figure 6. The LUC inspection checklist for Tank 50 was completed based on these findings/observations and is provided in Appendix A. The field notes and photographs from Tank 50 are provided in Appendices C and D, respectively.

In addition, monitoring wells at Tank 50 were inspected for general condition in accordance with the Monitoring Well Inspection Checklists (see Appendix B). Based on the findings presented in the *Well Rehabilitation and Decommissioning Study, Fleet Logistics Center Puget Sound Manchester Fuel Depot, Manchester, Washington* (Battelle, 2017), there is a total of two groundwater monitoring wells at Tank 50. Table 3 provides a summary of the inspection findings/observations at each monitoring well.

Table 3. Summary of Monitoring Well Condition Assessment at Tank 50

Well ID	Northing	Easting	General Condition	Photo #	Comments from 2017 Inspections
Tank 50 – UST Release Site					
MW-1	64406.94	370945.00	•	120, 121	_
MW-2	64429.72	370850.70	•	122	Well is labeled on well cap. Lock on well lid was removed to inspect well.

good condition

Both groundwater monitoring wells MW-1 and MW-2 are in good, operable condition.

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Section 3.0

3.0 CONCLUSIONS AND RECOMMENDATIONS

This section provides a summary of findings, conclusions and subsequent recommendations associated with the results of the 2017 LUC inspections at Sites 302, 303, 304 and Tank 50 of MFD.

On August 29 and 30, 2017, inspections were conducted to ensure the effectiveness of LUCs in place at Sites 302, 303, 304 and Tank 50 as detailed in the *Land Use Control Plan for Sites 302, 303, 304 and Tank 50, Naval Base Kitsap Manchester, Manchester, Washington* (Battelle, 2016b). A field inspection, determination of the current land use, document review, and condition assessment of engineering controls were conducted at each site to determine the conditions of the LUCs in place and verify that these LUCs remain protective of human health and the environment. Table 4 summarizes the findings from the LUC inspection and subsequent recommendations.

Table 4. Summary of Findings and Recommendations from the 2017 LUC Inspections

Findings	Recommendations				
Site 302 - PCB Site					
There is no LUC signage on the primary gate/entrance on the south side of the site (Photo #124).	Add "Restricted Area" or LUC signage on the primary gate/entrance along the south side of the site.				
The central portion of the site is covered with large, older stockpiles of soil and debris (Photo #126).	Properly characterize the excess soil placed in the central portion of the site. If the soil meets Model Toxic Control Act (MTCA) Method A levels, then use to regrade site and develop vegetative cover. If the soil exceeds MTCA Method A levels, then properly transport and dispose of soil offsite, place clean topsoil cap, and develop vegetative cover as recommended in the <i>Third Five-Year Review</i> (NAVFAC Northwest, 2015).				
The gated entrance on the north side of the site is unlocked, open, and has no LUC signage (Photo #127).	Close, lock, and add LUC signage to the gated entrance on the north side of the site.				
Site 303 -	D-Tunnel Tanks				
An unmarked stockpile of soil covered by black poly sheeting in the northwest corner of the construction laydown area southwest of Tank 24 (Photo #21).	Confirm soil stockpile is authorized reusable material and is located in an approved staging area. Post approval permit from MFD Environmental for staging material at job site.				
An unmarked stockpile of soil half-covered by black poly sheeting in the along the eastern boundary of the construction laydown area southwest of Tank 24 (Photo #22).	Confirm soil stockpile is authorized reusable material and is located in an approved staging area. Post approval permit from MFD Environmental for staging material at job site.				
Old stockpile of soil on a tarp and surrounded by absorbent wattles in the laydown area north of Tank 29 (Photo #66).	Properly characterize, transport, and dispose of (off site) the soil.				

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Table 4. Summary of Findings and Recommendations from the 2017 LUC Inspections (continued)

Findings	Recommendations				
Both vapor monitoring well MW-2 at Tank 25 and groundwater monitoring well OW-2 were found to be in poor condition with only the 2-inch PVC piping or casing exposed at the ground surface (Photos #38 and #97, respectively).	As recommended in the Well Rehabilitation and Decommissioning Study, Fleet Logistics Center Puget Sound Manchester Fuel Depot, Manchester, Washington (Battelle, 2017), vapor monitoring well MW-2 at Tank 25 and groundwater monitoring well OW-2 along with all other monitoring wells within Site 303 will be decommissioned due to the upcoming construction activities. Therefore, it is recommended that the monitoring wells are no longer inspected for general condition and the LUC for protection of existing monitoring wells be discontinued at Site 303. A general condition assessment, depth to water measurement, and depth to product measurement will be collected immediately prior to properly decommissioning each monitoring well.				
Site 304 -	Industrial Area				
There is no LUC signage at the general entry way to Site 304 (Photo #104).	Add LUC signage at the general entry way to the site.				
There is construction of a trench box for a fuel line (i.e., excavation activities; Photo #105).	Post approval permit from MFD Environmental for construction of trench box at job site.				
Tank 50 - UST Release Site					
There is no LUC signage at the general entry way to Tank 50 (Photo #114).	Add LUC signage at the general entry way to the site, as it is noted in the Well Installation and Sampling and Analysis Tank No. 50 Fuel Hydrocarbon Leak Assessment, Manchester Fleet and Industrial Supply Center, Manchester, Washington (Hart Crowser, 1998).				

In general, the LUCs in place at each specified site of MFD remain effective in the protection of human health and the environment. The 2017 LUC inspections were the first inspections to be conducted at Sites 302, 303, 304 and Tank 50 of MFD. As such, it is recommended that the LUC inspections continue on an annual basis to evaluate if any changes or activities impact effectiveness of the LUCs relative to the condition and recommendations from August 2017.

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4.0 REFERENCES

- Battelle. 2016a. Recommendations for the Contractor Environmental and Safety Guide, Naval Base Kitsap Manchester, Manchester, Washington. September 21.
- Battelle. 2016b. Land Use Control Plan for Sites 302, 303, 304 and Tank 50, Naval Base Kitsap Manchester, Manchester, Washington. December 9.
- Battelle. 2017. Well Rehabilitation and Decommissioning Study, Fleet Logistics Center Puget Sound Manchester Fuel Depot, Manchester, Washington. August 10.
- Hart Crowser. 1998. Well Installation and Sampling and Analysis, Tank No. 50 Fuel Hydrocarbon Leak Assessment, Manchester Fleet and Industrial Supply Center, Manchester, Washington. Prepared for Department of the Navy Engineering Field Activity, Northwest Naval Facilities Engineering Comment. January 21.
- Naval Facilities Engineering Command (NAVFAC) Northwest. 2015. Third Five-Year Review for Sites 302, 303, and 304, Fleet Logistics Center Puget Sound (FLCPS), Naval Base Kitsap-Manchester, Washington. January 6.
- Washington State Department of Ecology (Ecology). 1998. *Ecology Determination at Tank 50 Site, FISC Manchester*. December 3.
- Washington State Department of Ecology (Ecology). 2000. *No Further Action Determination at PCB Site Letter*. September 25.
- Washington State Department of Ecology (Ecology). 2001. No Further Action Determination at Fleet and Industrial Supply Center Site 303/304 Letter. January 17.

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2017 Land Use Control Inspection Technical Memorandum
Fleet Logistics Center Puget Sound, Manchester Fuel Depot – Manchester, Washington
Naval Facilities Engineering Command Northwest

Appendix A Revision No. 0 Date: 10/09/17

APPENDIX A LUC Inspection Checklists 2017 Land Use Control Inspection Technical Memorandum
Fleet Logistics Center Puget Sound, Manchester Fuel Depot – Manchester, Washington
Naval Facilities Engineering Command Northwest

Appendix A Revision No. 0 Date: 10/09/17

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NBK Manchester Site 302 - PCB Site Naval Facilities Engineering Command Northwest

LAND USE CONTROLS (LUCs) INSPECTION CI	HECKLIST
DATE(S) (MM DD YY):	
INSPECTOR(S):	COMPANY:
LUCA	
 ENSURE THAT SITE SIGNAGE IS READABLE AND ADEQUATE. ENSURE THAT LAND USE REMAINS FOR INDUSTRIAL PURPOSES. ENSURE THAT THERE HAS BEEN NO UNAUTHORIZED SOIL EXCAVATION OR DISTURBANCE. ENSURE THAT THERE HAS BEEN NO UNAUTHORIZED PLACEMENT OF EXCESS SOIL FROM ENSURE INTEGRITY OF THE SOIL COVER VEGETATION, SO THAT ANY EXCAVATION OR IMMORKERS ARE PROTECTED DURING SUCH ACTIVITIES. ENSURE THAT SITE FENCING IS INTACT AND THAT GATES ARE SECURED AND LOCKED. NOTE: LUCS THAT ARE ITALICIZED ARE REQUIRED LUCS FROM THE NFA LETTER. LUCS INSPECTION ACTIONS 	M ANOTHER LOCATION. PROPER DISPOSAL IS APPARENT.
HAS SITE OR ADJACENT LAND USE CHANGED SINCE LAST INSPECTION? INSPECTION PERFORMED? SITE WALK INTERVIEW W/ (CHECK ALL THAT APPLY) SECURITY CHECK OTHER	☐ YES ☐ NO FINDINGS:
IS THERE VISUAL OR ADMINISTRATIVE EVIDENCE OF SOIL EXCAVATION OR DISTURBANCE? IF SO, DETERMINE IF SITE APPROVAL PROCESS HAS BEEN FOLLOWED. INSPECTION PERFORMED? SITE WALK INTERVIEW W/ (CHECK ALL THAT APPLY) SECURITY CHECK OTHER	YES NO FINDINGS:
IS THERE VISUAL OR ADMINISTRATIVE EVIDENCE OF THE UNAUTHORIZED PLACEMENT OF EXCESS SOIL FROM ANOTHER LOCATION? INSPECTION PERFORMED? SITE WALK INTERVIEW W/ (CHECK ALL THAT APPLY) SECURITY CHECK OTHER	☐ YES ☐ NO ☐ NA FINDINGS:
HAS THE INTEGRITY OF THE VEGETATIVE COVER AT THE SITE BEEN MAINTAINED? INSPECTION PERFORMED? SITE WALK INTERVIEW W/ (CHECK ALL THAT APPLY) SECURITY CHECK OTHER	☐ YES ☐ NO ☐ NA FINDINGS:
HAS ACCESS CONTROL BEEN MAINTAINED?	YES NO, EXPLAIN
IS SIGNAGE READABLE AND ADEQUATE? IS FENCING INTACT AND SECURE? ARE BOTH THE NORTH AND SOUTH GATES SECURED AND LOCKED INSPECTION PERFORMED?	SECURITY POC:



NBK Manchester Site 302 - PCB Site Naval Facilities Engineering Command Northwest

	LUCs INSPECTION CHECKLIST (CONTIN	NOED)
WERE PICTURES TAKEN?	☐ YES ☐ NO	PHOTO IDs
ADDITIONAL NOTES:		
I CERTIFY THAT THE CONDIT	TIONS OF THE AREA ON THE INSPECTION DATES(S) WERE AS	REPORTED ABOVE.
INSPECTOR SIGNATURE:	MP	DATE:



NBK Manchester Site 303 - D-Tunnel Tanks Naval Facilities Engineering Command Northwest

LAND USE CONTROLS (LUCS) INSPECTION CF	TECKLIS I
DATE(S) (MM DD YY):	
INSPECTOR(S):	COMPANY:
LUCs	
 ENSURE THAT LAND USE REMAINS FOR INDUSTRIAL PURPOSES. COORDINATE WITH ECOMNERSHIP OR LAND USE CONCERNING THE NEED FOR REMEDIAL ACTIONS. 	OLOGY PRIOR TO CHANGE IN PROPERTY
• ENSURE THAT WARNINGS ARE POSTED FOR WORKERS TO GUARD AGAINST EXPOSURE	TO RESIDUAL PETROLEUM
CONTAMINATED SOIL. • IDENTIFY REMAINING AREAS OF CONCERN ON FACILITY MAPS AND SPECIFY IN FACILITY	EYCAVATION PERMIT INSTRUCTION
ENSURE NO PRODUCTION WELLS ARE INSTALLED AND GROUNDWATER IS NOT USED EXC.	
REMEDIATION. • PROTECT EXISTING VAPOR MONITORING WELLS UNTIL FORMALLY ABANDONED.	
FROTECT EXISTING VAPOR MONITORING WELLS UNTIL FORMALLY ABANDONED. ENSURE THAT THERE HAS BEEN NO UNAUTHORIZED SOIL EXCAVATION OR DISTURBANCE.	E.
CONFINE AUTHORIZED REUSABLE MATERIAL* TO APPROVED STAGING AREA.	
 ENSURE THAT ANY SOIL EXCAVATED FROM THE SITE IS PROPERLY CHARACTERIZED AND WORKERS ARE PROTECTED DURING SUCH ACTIVITIES. 	DISPOSED OFF-SITE AND THAT ON-SITE
NOTE: LUCs THAT ARE ITALICIZED ARE REQUIRED LUCS FROM THE NFA LETTER.	
*THOSE MATERIALS FOR WHICH ONSITE PLACEMENT HAS BEEN COORDINATED WITH THE I BEEN CHARACTERIZED IN COLLABORATION WITH THE ECOLOGY SITE MANAGER.	ECOLOGY SITE MANAGER AND THAT HAVE
LUC INSPECTION ACTION	
HAS SITE OR ADJACENT LAND USE CHANGED SINCE LAST INSPECTION?	☐ YES ☐ NO
INSPECTION PERFORMED? SITE WALK INTERVIEW W/	FINDINGS:
(CHECK ALL THAT APPLY) SECURITY CHECK OTHER	
DO FACILITY MAPS IDENTIFY REMAINING AREAS OF CONCERN?	YES NO
	DESCRIBE:
DOES THE FACILITY EXCAVATION PERMIT INSTRUCTION SPECIFY REMAINING AREAS OF CONCERN?	☐ YES ☐ NO DESCRIBE:
IS THERE VISUAL EVIDENCE OF UNAUTHORIZED ON-SITE WELL INSTALLATION OR	☐ YES ☐ NO
GROUNDWATER USE? INSPECTION PERFORMED? SITE WALK INTERVIEW W/	FINDINGS:
(CHECK ALL THAT APPLY) SECURITY CHECK OTHER	SEE WELL INSPECTION LOGS
☐ WELL INSPECTIONS	OTHER
ARE ALL MONITORING WELLS IN GOOD CONDITION AND ACCESSIBLE? (REFER TO COMPLETED MONITORING WELL INSPECTION CHECKLISTS)	YES NO
INSPECTION PERFORMED? SITE WALK INTERVIEW W/	FINDINGS:
(CHECK ALL THAT APPLY) SECURITY CHECK OTHER	SEE WELL INSPECTION LOGS
☐ WELL INSPECTIONS	OTHER
IS THERE VISUAL OR ADMINISTRATIVE EVIDENCE OF SOIL EXCAVATION OR DISTURBANCE? IF SO, DETERMINE IF SITE APPROVAL PROCESS HAS BEEN FOLLOWED.	YES NO
INSPECTION PERFORMED? SITE WALK INTERVIEW W/	FINDINGS:
(CHECK ALL THAT APPLY) SECURITY CHECK OTHER	



NBK Manchester Site 303 - D-Tunnel Tanks Naval Facilities Engineering Command Northwest

LUCs INSPECTION CHECKLIST (CONTINUED) IS THERE VISUAL OR ADMINISTRATIVE EVIDENCE OF THE UNAUTHORIZED PLACEMENT EXCESS SOIL, FILL, OR SEDIMENT FROM ANOTHER LOCATION? ☐ YES ☐ NO ■ NA FINDINGS: INSPECTION PERFORMED? SITE WALK ☐ INTERVIEW W/_____ (CHECK ALL THAT APPLY) ☐ SECURITY CHECK ___ OTHER _____ HAS ACCESS CONTROL BEEN MAINTAINED? YES NO, EXPLAIN____ SECURITY POC: _____ IS SIGNAGE READABLE AND ADEQUATE? ■ NA YES ■ NO INTERVIEW W/____ FINDINGS: (CHECK ALL THAT APPLY) ☐ SECURITY CHECK OTHER _____ WERE PICTURES TAKEN? YES PHOTO IDs _____ □ NO ADDITIONAL NOTES: I CERTIFY THAT THE CONDITIONS OF THE AREA ON THE INSPECTION DATES(S) WERE AS REPORTED ABOVE. INSPECTOR SIGNATURE: DATE:



NBK Manchester Site 304 - Industrial Area Naval Facilities Engineering Command Northwest

LAND USE CONTROLS (LUCs) INSPECTION CH	IECKLIST
DATE(S) (MM DD YY):	
INSPECTOR(S):	COMPANY:
LUCs	
 ENSURE THAT LAND USE REMAINS FOR INDUSTRIAL PURPOSES. COORDINATE WITH ECO OWNERSHIP OR LAND USE CONCERNING THE NEED FOR REMEDIAL ACTIONS. ENSURE THAT WARNINGS ARE POSTED FOR WORKERS TO GUARD AGAINST EXPOSURE TO CONTAMINATED SOIL. IDENTIFY REMAINING AREAS OF CONCERN ON FACILITY MAPS AND SPECIFY IN FACILITY IN ENSURE NO PRODUCTION WELLS ARE INSTALLED AND GROUNDWATER IS NOT USED EXCREMEDIATION. PROTECT EXISTING MONITORING WELLS UNTIL FORMALLY ABANDONED. ENSURE THAT THERE HAS BEEN NO UNAUTHORIZED SOIL EXCAVATION OR DISTURBANCE. ENSURE THAT ANY SOIL EXCAVATED FROM THE SITE IS PROPERLY CHARACTERIZED AND WORKERS ARE PROTECTED DURING SUCH ACTIVITIES. NOTE: LUCS THAT ARE ITALICIZED ARE REQUIRED LUCS FROM THE NFA LETTER. 	TO RESIDUAL PETROLEUM EXCAVATION PERMIT INSTRUCTION. CEPT FOR MONITORING AND/OR E.
LUC INSPECTION ACTIONS	
HAS SITE OR ADJACENT LAND USE CHANGED SINCE LAST INSPECTION? INSPECTION PERFORMED? SITE WALK INTERVIEW W/ (CHECK ALL THAT APPLY) SECURITY CHECK OTHER	YES NO FINDINGS:
DO FACILITY MAPS IDENTIFY REMAINING AREAS OF CONCERN?	YES NO DESCRIBE:
DOES THE FACILITY EXCAVATION PERMIT INSTRUCTION SPECIFY REMAINING AREAS OF CONCERN?	YES NO DESCRIBE:
IS THERE VISUAL EVIDENCE OF UNAUTHORIZED ON-SITE WELL INSTALLATION OR GROUNDWATER USE? INSPECTION PERFORMED? SITE WALK INTERVIEW W/ (CHECK ALL THAT APPLY) SECURITY CHECK OTHER WELL INSPECTIONS	☐ YES ☐ NO FINDINGS: ☐ SEE WELL INSPECTION LOGS ☐ OTHER
ARE ALL MONITORING WELLS IN GOOD CONDITION AND ACCESSIBLE? (REFER TO COMPLETED MONITORING WELL INSPECTION CHECKLISTS) INSPECTION PERFORMED? SITE WALK INTERVIEW W/ (CHECK ALL THAT APPLY) SECURITY CHECK OTHER WELL INSPECTIONS	☐ YES ☐ NO FINDINGS: ☐ SEE WELL INSPECTION LOGS ☐ OTHER
IS THERE VISUAL OR ADMINISTRATIVE EVIDENCE OF SOIL EXCAVATION OR DISTURBANCE? IF SO, DETERMINE IF SITE APPROVAL PROCESS HAS BEEN FOLLOWED. INSPECTION PERFORMED? SITE WALK INTERVIEW W/ (CHECK ALL THAT APPLY) SECURITY CHECK OTHER	YES NO NO FINDINGS:



NBK Manchester Site 304 - Industrial Area Naval Facilities Engineering Command Northwest

LUCs INSPECTION CHECKLIST (CONTINUED) HAS ACCESS CONTROL BEEN MAINTAINED? YES NO, EXPLAIN_____ SECURITY POC: ___ ☐ YES ☐ NO ☐ NA IS SIGNAGE READABLE AND ADEQUATE? INSPECTION PERFORMED? SITE WALK ☐ INTERVIEW W/_____ FINDINGS: (CHECK ALL THAT APPLY) SECURITY CHECK OTHER WERE PICTURES TAKEN? YES PHOTO IDs ____ □ NO ADDITIONAL NOTES: I CERTIFY THAT THE CONDITIONS OF THE AREA ON THE INSPECTION DATES(S) WERE AS REPORTED ABOVE. INSPECTOR SIGNATURE: DATE:



NBK Manchester Tank 50 Release Site Naval Facilities Engineering Command Northwest

LAND USE CONTROLS (EUCS) INSPECTION CI	ILCREIST
DATE(S) (MM DD YY):	
INSPECTOR(S):	COMPANY:
LUCs	
 ENSURE THAT WARNINGS ARE POSTED FOR WORKERS TO GUARD AGAINST EXPOSURE CONTAMINATED SOIL. IDENTIFY REMAINING AREAS OF CONCERN ON FACILITY MAPS AND SPECIFY IN FACILITY ENSURE THAT LAND USE REMAINS FOR INDUSTRIAL PURPOSES. COORDINATE WITH ECONNERSHIP OR LAND USE CONCERNING THE NEED FOR REMEDIAL ACTIONS. ENSURE NO PRODUCTION WELLS ARE INSTALLED AND GROUNDWATER IS NOT USED EXCREMEDIATION. 	EXCAVATION PERMIT INSTRUCTION. OLOGY PRIOR TO CHANGE IN PROPERTY
PROTECT EXISTING MONITORING WELLS UNTIL FORMALLY ABANDONED.	
ENSURE THAT THERE HAS BEEN NO UNAUTHORIZED SOIL EXCAVATION OR DISTURBANC	E.
 ENSURE THAT ANY SOIL EXCAVATED FROM THE SITE IS PROPERLY CHARACTERIZED AND WORKERS ARE PROTECTED DURING SUCH ACTIVITIES. 	DISPOSED OFF-SITE AND THAT ON-SITE
NOTE: LUCs THAT ARE ITALICIZED ARE REQUIRED LUCs FROM THE NFA LETTER.	
NOTE. LUCS THAT ARE TIALICIZED ARE REQUIRED LUCS FROM THE NFA LETTER.	
LUC INSPECTION ACTION	
HAS SITE OR ADJACENT LAND USE CHANGED SINCE LAST INSPECTION? INSPECTION PERFORMED? SITE WALK INTERVIEW W/ (CHECK ALL THAT APPLY) SECURITY CHECK OTHER	☐ YES ☐ NO FINDINGS:
DO FACILITY MAPS IDENTIFY REMAINING AREAS OF CONCERN?	☐ YES ☐ NO DESCRIBE:
DOES THE FACILITY EXCAVATION PERMIT INSTRUCTION SPECIFY REMAINING AREAS OF CONCERN?	YES NO DESCRIBE:
IS THERE VISUAL EVIDENCE OF UNAUTHORIZED ON-SITE WELL INSTALLATION OR GROUNDWATER USE?	☐ YES ☐ NO
INSPECTION PERFORMED? SITE WALK INTERVIEW W/ (CHECK ALL THAT APPLY) SECURITY CHECK OTHER WELL INSPECTIONS	FINDINGS: SEE WELL INSPECTION LOGS OTHER
ARE ALL MONITORING WELLS IN GOOD CONDITION AND ACCESSIBLE? (REFER TO COMPLETED MONITORING WELL INSPECTION CHECKLISTS)	☐ YES ☐ NO
INSPECTION PERFORMED? SITE WALK INTERVIEW W/ (CHECK ALL THAT APPLY) SECURITY CHECK OTHER WELL INSPECTIONS	FINDINGS: SEE WELL INSPECTION LOGS OTHER
IS THERE VISUAL OR ADMINISTRATIVE EVIDENCE OF SOIL EXCAVATION OR DISTURBANCE? IF SO, DETERMINE IF SITE APPROVAL PROCESS HAS BEEN FOLLOWED.	YES NO
INSPECTION PERFORMED? SITE WALK INTERVIEW W/ (CHECK ALL THAT APPLY) SECURITY CHECK OTHER	FINDINGS:



NBK Manchester Tank 50 Release Site Naval Facilities Engineering Command Northwest

LUCs INSPECTION CHECKLIST (CONTINUED) IS THERE VISUAL OR ADMINISTRATIVE EVIDENCE OF THE UNAUTHORIZED PLACEMENT EXCESS SOIL, FILL, OR SEDIMENT FROM ANOTHER LOCATION? YES □ NO □ NA INSPECTION PERFORMED? SITE WALK ☐ INTERVIEW W/_____ FINDINGS: (CHECK ALL THAT APPLY) SECURITY CHECK OTHER _____ HAS ACCESS CONTROL BEEN MAINTAINED? YES NO, EXPLAIN ___ SECURITY POC:____ IS SIGNAGE READABLE AND ADEQUATE? ☐ YES ☐ NO □ NA INSPECTION PERFORMED? SITE WALK ☐ INTERVIEW W/_____ FINDINGS: (CHECK ALL THAT APPLY) ☐ SECURITY CHECK OTHER _____ WERE PICTURES TAKEN? YES PHOTO IDs _____ □ NO ADDITIONAL NOTES: I CERTIFY THAT THE CONDITIONS OF THE AREA ON THE INSPECTION DATES(S) WERE AS REPORTED ABOVE. INSPECTOR SIGNATURE: DATE:

2017 Land Use Control Inspection Technical Memorandum
Fleet Logistics Center Puget Sound, Manchester Fuel Depot – Manchester, Washington
Naval Facilities Engineering Command Northwest

Appendix B Revision No. 0 Date: 10/09/17

APPENDIX B
Monitoring Well Inspection Checklists

2017 Land Use Control Inspection Technical Memorandum Fleet Logistics Center Puget Sound, Manchester Fuel Depot – Manchester, Washington Naval Facilities Engineering Command Northwest

Appendix B Revision No. 0 Date: 10/09/17

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MONITORI	NG WELL CHECK	LIST FOR LUC INS	SPECTION
DATE (MM DD YY):	TIME (HH:MM).	ما5 ما5	WEATHER/TEMPERATURE SUNDY CLEAN
INSPECTOR:		COMPANY:	11
A. Paoluci and M.	Zelenevich	Battelle	
Site 303	DESCRIPTION DESCRIPTION	Tank Jank?	2
WELL ID:	NORTHING:	100 A BG	EASTING: (B6-)
MW-11	-6 196	13, c7 86111	371517.30 Alelu
	GROUNDWATER 6	1066.78	371622,40
MONITORING WELL LOCATED? IS THE WELL CLEARLY LABELED? IS THE MONUMENT IN GOOD CONDITION?		YES Y YES Y YES	□ NO
TYPE OF WELL CASING: STICK-UP OTHER	FLUSH-MOUNT	SIZE & NUMBER OF BO	DLTS ON FLUSH-MOUNT LID
IS THE CASING IN GOOD CONDITION? IS THERE A CAP ON THE MONITORING WE TYPE OF CAP: PVC SLIP CAP J-PLUG EXPANSION PRODUCTION V	(VMW) (AMP	YES YES	□ NO Cannot view cosing; □ NO waterm annular spaing.
PETROLEU	OTTEN EGGS	NG OR CAP? YES YES	X NO
☐ OTHER ☐ WERE PICTURES TAKEN? ☐ YES ☐ NO		PHOTO IDs:	started talong proves @ 0407
ADDITIONAL NOTES OR COMMENTS:			CONDITION (CHECK ONE):
located along roadside.)		DD CONDITION DERATE CONDITION
located along roadside. Water in annular spa	ing.		OR CONDITION



MONITORI	NG WELL CHECKLIS	T FOR LUC IN	SPECTION
DATE (MM DD YY)	TIME (HH:MM):		WEATHER/TEMPERATURE:
08/29/17	091]		Sunny/clear
INSPECTOR 1		OMPANY:	/ ·
A. Paoluces and M. Zele		Battelle	
SITE	DESCRIPTION:	Vacan	30
Site 303	D-Tunnel Tax	nfs, Tank	ll
WELL ID:	NORTHING:	(BF)	EASTING:
MW-12	6 4483	1. 55 AM	-371269.50 975/m
2 /	GROUNDWATER 64 (57 4.14	371629.80
MONITORING WELL LOCATED?		X YES	□ NO .
IS THE WELL CLEARLY LABELED?		YES	⊠ vo
IS THE MONUMENT IN GOOD CONDITION?		X YES	□ NO
TYPE OF WELL CASING: STICK-UP OTHER	FLUSH-MOUNT SIZE	a NUMBER OF BO	LTS ON FLUSH-MOUNT LID:
CASING DIAMETER 2" 4" 6" IS THE CASING IN GOOD CONDITION? IS THERE A CAP ON THE MONITORING WEI TYPE OF CAP: PVC SLIP CAP J-PLUG EXPANSION PRODUCTION W		X YES	□ NO □ NO
OTHER VALOCE OF TAMPERING N	•	R CAP?	∑ NO
ARE THERE ANY ODORS? IF YES, DESCRIBE ODOR: ☐ SOLVENT		YES	™ NO
SULFIDE/RO PETROLEUM OTHER WERE PICTURES TAKEN? X YES NO		PHOTO IDs:	Started taking
ADDITIONAL NOTES OR COMMENTS:		CENEDALCO	ANDITION (CHECK ONE)
ADDITIONAL NOTES ON COMMENTS.		_	ONDITION (CHECK ONE) [.]
		77	ERATE CONDITION
		POOF	RCONDITION



MONITORING WELL CHECKLIST FOR LUC INSPECTION				
DATE (MM DD YY):	TIME (HH:MM)		WEATHER/TEMPERATURE	:
08/24/17	9116	COMPANY	Sunnylaeur	
INSPECTOR	71000 410	COMPANY.	•	
Angula Padvui and M	DESCRIPTION:	raffere		
Site 303	DESCRIPTION:	anks, Tunka	2	
WELL ID.	NORTHING:	•	EASTING:	(BG) ,
MW-1	640	76.97	371639,50	9/15/17
-	GROUNDWATER SOIL VAPOR			
MONITORING WELL LOCATED? IS THE WELL CLEARLY LABELED? IS THE MONUMENT IN GOOD CONDITION?		X YES X YES X YES	□ NO□ NO□ NO	
TYPE OF WELL CASING: STICK-UP OTHER	7*	SIZE & NUMBER OF BO	LTS ON FLUSH-MOUNT LID	
CASING DIAMETER 2" 4" 6" IS THE CASING IN GOOD CONDITION? IS THERE A CAP ON THE MONITORING WE TYPE OF CAP PVC SLIP CAP J-PLUG EXPANSION PRODUCTION V	LL?	YES	□ NO □ NO	
IS THERE ANY EVIDENCE OF TAMPERING ARE THERE ANY ODORS? IF YES, DESCRIBE ODOR: SOLVENT SULFIDE/RO PETROLEUI	OTTEN EGGS	G OR CAP? YES	⊠ NO ⊠ NO	
☐ OTHER WERE PICTURES TAKEN? ☑ YES ☐ NO		PHOTO IDs.	Sturted taking photos @ Ofte	
ADDITIONAL NOTES OR COMMENTS			ONDITION (CHECK ONE):	
Can view tubing from			D CONDITION ERATE CONDITION	
Can view tubing from vapor monitoring Syste	M .	_	R CONDITION	
Vapor memoring 27 510	, , , ,	_		



MONITORI	NG WELL CHECK	LIST FOR LUC INS	SPECTION	
OR/99/17	TIME (HH·MM)·	20	WEATHER/TEMPERATURE SUNNVICEAN	≣:
INSPECTOR:	J e p	COMPANY.	71000	
A. Avoluci and M. Zela	eneulou	Battelle		
SITE:	DESCRIPTION:	- 1/2 - 1/2:	_	
Site 303	1)-Tunnel	Tanks, Tonk 2		(a)
WELL ID:	NORTHING: 74	074.09	EASTING .	01-15
MW-Z	6 1	0 17 ,09	371649,60	915/17
- -	GROUNDWATER SOIL VAPOR			
MONITORING WELL LOCATED?		∑ YES	□ NO	
IS THE WELL CLEARLY LABELED? IS THE MONUMENT IN GOOD CONDITION?		⊠ YES ⊠ YES	□ NO	
	FLUSH-MOUNT	77	_	
OTHER		2 3/4"	LTS ON FLUSH-MOUNT LID	
CASING DIAMETER	//TUBING	YES	□ NO □ NO	
IS THERE ANY EVIDENCE OF TAMPERING	WITH THE WELL CASIN		<u>⊠</u> NO ⊠ NO	
ARE THERE ANY ODORS? IF YES, DESCRIBE ODOR: SOLVENT SULFIDE/RO PETROLEUM OTHER WERE PICTURES TAKEN? YES NO		☐ YES	stanted taking	
			<u>• </u>	
ADDITIONAL NOTES OR COMMENTS:		GENERAL CO	ONDITION (CHECK ONE)	
Buried under grass.		MODE	D CONDITION ERATE CONDITION R CONDITION	



MONITORING WELL CHECKLIST FOR LUC INSPECTION				
DATE (MM DD YY);	TIME (HH:MM). <i>0928</i>		WEATHERITEMPERATURE:	
INSPECTOR: A. Paolice and M. Zele	enewich	COMPANY.		
SITE: SHU303	D-TUNNEL TO	anks, Tank 22		
WELL ID: MW-3	NORTHING 6 6	anks, Tank 22 166,49	371656,40	14117
	GROUNDWATER SOIL VAPOR			
MONITORING WELL LOCATED? IS THE WELL CLEARLY LABELED? IS THE MONUMENT IN GOOD CONDITION? TYPE OF WELL CASING: OTHER		YES YES YES SIZE & NUMBER OF BO	☐ NO INO ☐ NO ☐ NO DLTS ON FLUSH-MOUNT LID:	
	<i>I[</i> TUB̞ING	YES	□ NO □ NO	
IS THERE ANY EVIDENCE OF TAMPERING ARE THERE ANY ODORS? IF YES, DESCRIBE ODOR: SOLVENT SULFIDE/RO PETROLEUM OTHER	OTTEN EGGS	IG OR CAP? ☐ YES ☐ YES	MO NO	
WERE PICTURES TAKEN? ▼YES □ NO		PHOTO IDs:	Started tuking Motos @ 0924	
ADDITIONAL NOTES OR COMMENTS: Water in monument.		∭ GOO	ONDITION (CHECK ONE): D CONDITION ERATE CONDITION R CONDITION	



MONITORING WELL CHECKLIST FOR LUC INSPECTION				
DATE (MM DD YY):	TIME (HH·MM):	3 1	WEATHER/TEMPERATURE	
INSPECTOR:	1	COMPANY:	11	
A.Paoluci and M. Zelen	newich	Balfelle		
SHE 303	D-Tunnel TO	inks, Tank 22	\	~
WELL ID:	NORTHING:		EASTING.	(BG)
MW-4	640	56,50	37158.80	9/5/17
- 1	GROUNDWATER SOIL VAPOR			
MONITORING WELL LOCATED?		X YES	□ NO	
IS THE WELL CLEARLY LABELED? IS THE MONUMENT IN GOOD CONDITION?		X YES	□ NO □ NO □ NO	
	M FILIGH MOUNT	CIZE & NUMBER OF BO		
TYPE OF WELL CASING: STICK-UP OTHER	;	2 bolts 3	LIS ON FLUSH-MOUNT LID	
CASING DIAMETER 2" 4" 6" IS THE CASING IN GOOD CONDITION? IS THERE A CAP ON THE MONITORING WE TYPE OF CAP: PVC SLIP CAP J-PLUG EXPANSION	□ 8" □ OTHER	YES	□ NO □ NO	
PRODUCTION MODIFIED TO THER WIND OTHER WIND OTHER WIND OTHER WIND OTHER WIND OTHER OTHER OTHER OTHER OTHER OTHER	CEP	IG OR CAP?	IX NO IX NO	
WERE PICTURES TAKEN? X YES ☐ NO		PHOTO IDs:	Started taking pictures@0932	
ADDITIONAL NOTES OR COMMENTS:		∭ GOOI ☐ MODI	ONDITION (CHECK ONE). D CONDITION ERATE CONDITION R CONDITION	



MONITORING WELL CHECKLIST FOR LUC INSPECTION				
DATE (MMIDDIYY).	TIME (HH·MM):	P	WEATHER/TEMPERATURE: SUMMY/CLEW	
INSPECTOR:		COMPANY:	11	
A.Paolvul and M. Zelen	win	Buttelle	A STATE OF THE STA	
Site 303	D-Tunnel Ta	inks, Tank 22		
WELL ID:	NORTHING:	1046.46	EASTING: (\$6) 371656.10 9/5/17	
INSPECTION CHECKLIST:	8 1	10 16. 10	7 11030'10 113111	
TYPE OF MONITORING WELL: \Box	GROUNDWATER SOIL VAPOR		•	
MONITORING WELL LOCATED?		YES	□NO	
IS THE WELL CLEARLY LABELED? IS THE MONUMENT IN GOOD CONDITION?		YES	Ì X NO	
	X FLUSH-MOUNT	SIZE & NUMBER OF BO	DLTS ON FLUSH-MOUNT LID:	
OTHER		2 botts	δφ	
CASING DIAMETER 2" 4" 6" IS THE CASING IN GOOD CONDITION? IS THERE A CAP ON THE MONITORING WE TYPE OF CAP PVC SLIP CAP J-PLUG EXPANSION PRODUCTION WE OTHER WALK	//TŲBING	Ves Les	□ NO under water □ NO under water	
IS THERE ANY EVIDENCE OF TAMPERING ARE THERE ANY ODORS? IF YES, DESCRIBE ODOR: SOLVENT	WITH THE WELL CASIN	NG OR CAP? YES YES	⊠ NO ⊠ NO	
☐ SULFIDE/RC ☐ PETROLEUN ☐ OTHER WERE PICTURES TAKEN? X YES ☐ NO	DTTEN EGGS	PHOTO IDs:	motos taken @ 0936	
ADDITIONAL NOTES OR COMMENTS: Monument filled w/wav	ev.	GOO	ONDITION (CHECK ONE): D CONDITION ERATE CONDITION R CONDITION WAREV	



DATE (MM DD YY): 08/29/17 TIME (HH:MM): 9937 WEATHER/TEMPERATURE: Sonny/User					
1					
INSPECTOR: COMPANY:					
A. Paoluci and M. Zelenevich Battelle					
SITE: DESCRIPTION:					
Site 303 D-Tunnel Tanks, Tank 22					
WELL ID: NORTHING: EASTING:					
MW-6 64 040.00 371648,50 9151					
INSPECTION CHECKLIST					
TYPE OF MONITORING WELL¹ ☐ GROUNDWATER ☑ SOIL VAPOR					
MONITORING WELL LOCATED? MONITORING WELL LOCA					
IS THE WELL CLEARLY LABELED?					
IS THE MONUMENT IN GOOD CONDITION?					
TYPE OF WELL CASING: STICK-UP ME FLUSH-MOUNT SIZE & NUMBER OF BOLTS ON FLUSH-MOUNT LID:					
CASING DIAMETER 2" 4" 6" 8" DOTHER UNDER WATER					
IS THE CASING IN GOOD CONDITION?					
IS THE CASING IN GOOD CONDITION? IS THERE A CAP ON THE MONITORING WELL? YES NO VIOLEN WATER YES NO VIOLEN WATER					
TYPE OF CAP: PVC SLIP CAP J-PLUG					
☐ 5-FLOG					
PRODUCTION W/TUBING					
OTHER UNDER WATER					
IS THERE ANY EVIDENCE OF TAMPERING WITH THE WELL CASING OR CAP? 🔲 YES 💢 NO					
ARE THERE ANY ODORS?					
IF YES, DESCRIBE ODOR: ☐ SOLVENT ☐ SULFIDE/ROTTEN EGGS					
PETROLEUM					
OTHER about tukes					
WERE PICTURES TAKEN? YES PHOTO IDs: 10 10 10 10 10 10 10 10 10 10 10 10 10					
ADDITIONAL NOTES OR COMMENTS. GENERAL CONDITION (CHECK ONE):	_				
GOOD CONDITION Under					
Monument filled w water. Good condition water Moderate condition water Moderate condition water Moderate condition water					



NBK Manchester NBK Manchester Naval Facilities Engineering Command Northwest

MONITORING WELL CHECKLIST FOR LUC INSPECTION					
DATE (MMIDDIYY):	TIME (HH:MM)	41	WEATHER/TEMPERATURE:		
INSPECTOR. A. Paoliucci and M. Ze	elenevich	company. Battelle	<i>[1]</i>		
SITE SIZE 303	DESCRIPTION:	Tanks, Tank 2	2	8	
WELL ID:	NORTHING:	37.05	EASTING: 37/638,40	915/17	
-	GROUNDWATER SOIL VAPOR				
MONITORING WELL LOCATED? IS THE WELL CLEARLY LABELED? IS THE MONUMENT IN GOOD CONDITION?		XX YES ☐ YES XX YES	□ NO □ NO		
TYPE OF WELL CASING: STICK-UP OTHER	FLUSH-MOUNT	SIZE & NUMBER OF BO	LTS ON FLUSH-MOUNT LID:		
CASING DIAMETER 2" 4" 6" IS THE CASING IN GOOD CONDITION? IS THERE A CAP ON THE MONITORING WE TYPE OF CAP PVC SLIP CAP J-PLUG EXPANSION PRODUCTION W		YES XI YES But, Ca	□ NO □ NO proton well,		
IS THERE ANY EVIDENCE OF TAMPERING TAME THERE ANY ODORS? IF YES, DESCRIBE ODOR: SOLVENT SULFIDE/RO PETROLEUM	OTTEN EGGS	NG OR CAP? YES	NO NO		
☐ OTHER WERE PICTURES TAKEN? 【X YES ☐ NO		PHOTO IDs:	photos talen 0 0943		
ADDITIONAL NOTES OR COMMENTS: Placed Cap back on/in Casing.	well	GOO MOD	ONDITION (CHECK ONE): D CONDITION ERATE CONDITION R CONDITION		



MONITORING WELL CHECKLIST FOR LUC INSPECTION					
DATE (MM DD YY)	TIME (HH:MM)		WEATHER/TEMPERATURE:		
08/29/17	0947		Sunny Clear		
INSPECTOR: A. Paolucul and M. Zelen	extell	company: Baffelle	/ '		
SITE:	DESCRIPTION:				
Site 303		inks, Tank 22			
WELL ID:	NORTHING:		EASTING:		
MW-8	6 40	40.08	371628.60 9/5/17		
	GROUNDWATER SOIL VAPOR				
MONITORING WELL LOCATED? IS THE WELL CLEARLY LABELED? IS THE MONUMENT IN GOOD CONDITION?		X YES X YES X YES	☐ NO ☐ NO ☐ NO		
TYPE OF WELL CASING: STICK-UP OTHER	FLUSH-MOUNT	SIZE & NUMBER OF BO	LTS ON FLUSH-MOUNT LID		
CASING DIAMETER	LL?	YES YES	□ NO wet, cannot view □ NO Casing		
IS THERE ANY EVIDENCE OF TAMPERING ARE THERE ANY ODORS? IF YES, DESCRIBE ODOR: SOLVENT SULFIDE/RO PETROLEUM OTHER	TTEN EGGS	G OR CAP? YES	NO NO		
WERE PICTURES TAKEN? X YES		PHOTO IDs	photos falen O 0948		
ADDITIONAL NOTES OR COMMENTS		GENERAL CO	ONDITION (CHECK ONE)		
mm) Damp inside monument. Debris		🖰 моді	D CONDITION ERATE CONDITION R CONDITION		



MONITORING WELL CHECKLIST FOR LUC INSPECTION					
DATE (MM DD YY).	TIME (HH:MM)		WEATHER/TEMPERATURE	<u>.</u>	
98/29/17	9151	COMPANY:	Sunny/clear		
INSPECTOR:	ماملين	Bakene			
A. Paoluci and M. Zelen	DESCRIPTION:	autare			
SITE SO3		inks, Tank 22			
WELL ID:	NORTHING: 64 0	110.00	EASTING:	(BG)	
MW-9	640	1.1.08	371621.30	9/5117	
Ţ	GROUNDWATER SOIL VAPOR	,			
MONITORING WELL LOCATED? IS THE WELL CLEARLY LABELED? IS THE MONUMENT IN GOOD CONDITION?		YES YES YES YES YES SIZE & NUMBER OF BO	□ NO NO NO		
TYPE OF WELL CASING:	• -	SIZE & NUMBER OF BO	oLTS ON FLUSH-MOUNT LID:		
CASING DIAMETER	LL? V/TUBING	YES	□ NO □ NO		
PETROLEUI	OTTEN EGGS	NG OR CAP?	M NO		
☐ OTHER WERE PICTURES TAKEN? ☐ YES ☐ NO		PHOTO IDs.	Photostaken ® 0952		
ADDITIONAL NOTES OR COMMENTS:		GOC MOD	CONDITION (CHECK ONE): DO CONDITION DERATE CONDITION DOR CONDITION		



MONITORING WELL CHECKLIST FOR LUC INSPECTION					
DATE (MMIDDIYY)	TIME (HH.MM): <i>0956</i>		WEATHER/TEMPERATURE.		
INSPECTOR:		PANY.	11		
A. Paolucui and M. Zele	nevich	Battelle			
SITE:	DESCRIPTION:				
Site 303	DESCRIPTION: D-TURNEL Tanks NORTHING: (4000)	Tank 22			
WELL ID:	NORTHING 6 4057	- 2	EASTING: (BG)		
MW-10	6 405 1	27	371618.80 95117		
INSPECTION CHECKLIST					
-	GROUNDWATER SOIL VAPOR				
MONITORING WELL LOCATED?		🔀 YES	□ NO		
IS THE WELL CLEARLY LABELED?		YES	⊠ NO		
IS THE MONUMENT IN GOOD CONDITION?		X YES	□ NO		
TYPE OF WELL CASING: STICK-UP OTHER		NUMBER OF BO	DLTS ON FLUSH-MOUNT LID: l		
					
CASING DIAMETER 2" 4" 6" IS THE CASING IN GOOD CONDITION?	□8 □ OTHER	—— ∑ YES	□ NO		
IS THERE A CAP ON THE MONITORING WE	LL?	X YES	□ NO		
TYPE OF CAP: PVC SLIP CAP		~	_		
☐ J-PLUG					
EXPANSION	(TUDING				
☐ PRODUCTION W					
7	1		677°		
IS THERE ANY EVIDENCE OF TAMPERING NAME THERE ANY ODORS?	WITH THE WELL CASING OR C	AP? YES	X NO X NO		
IF YES, DESCRIBE ODOR: ☐ SOLVENT			A NO		
□ SULFIDE/RO	TTEN EGGS				
☐ PETROLEUM	1				
OTHER		DUOTO ID	thater folian		
WERE PICTURES TAKEN? K☐ YES ☐ NO		PHOTO IDs:	1 60 6456		
ADDITIONAL NOTES OR COMMENTS:			ONDITION (CHECK ONE):		
located along access and			D CONDITION		
located along access road.			ERATE CONDITION		
		□ 500	R CONDITION		



MONITORING WELL CHECKLIST FOR LUC INSPECTION					
DATE (MMIDDIYY)	TIME (HH MM):		WEATHER/TEMPERATURE		
08/24/17	0959	COMPANY:	Sinny Clear		
A.Paolucul and M.Ze	Jana Acla	Batted-e			
SITE:	DESCRIPTION:	Dirica C			
SAe 303		anks, Tank Z	2		
WELL ID:	NORTHING:		EASTING		
MW-B	690	153.92	37/6/3.30 9/5/(1)		
INSPECTION CHECKLIST					
<u> </u>	GROUNDWATER SOIL VAPOR				
MONITORING WELL LOCATED?		X YES	□ NO		
IS THE WELL CLEARLY LABELED?		☐ YES	⊠ NO		
IS THE MONUMENT IN GOOD CONDITION?		▼ YES	□ NO		
TYPE OF WELL CASING: STICK-UP OTHER	FLUSH-MOUNT	2 bolts 34"	DLTS ON FLUSH-MOUNT LID:		
CASING DIAMETER 2" 4" 6" IS THE CASING IN GOOD CONDITION? IS THERE A CAP ON THE MONITORING WE TYPE OF CAP: PVC SLIP CAP J-PLUG EXPANSION	LL?	YES YES	□ NO vader water		
PRODUCTION W OTHER **MW** IS THERE ANY EVIDENCE OF TAMPERING TO THERE ANY ODORS? IF YES, DESCRIBE ODOR: SOLVENT SULFIDE/RO PETROLEUM OTHER	WITH THE WELL CASIN	IG OR CAP?	X NO		
WERE PICTURES TAKEN? YES	 	PHOTO IDs [.]	Photos taken @ 1000		
ADDITIONAL NOTES OR COMMENTS:			ONDITION (CHECK ONE):		
water in monument op to top of casing	•	□ мор	D CONDITION BERATE CONDITION R CONDITION		
adjacent to Soil Sentry Control Panel.	System				



MONITORING WELL CHECKLIST FOR LUC INSPECTION				
DATE (MMIDDIYY)	TIME (HH:MM):		WEATHER/TEMPERATURE:	
08/29/17	1040		clear sunny	
INSPECTOR		COMPANY:	,	
Angela Paolicui and A		Battelle		
SITE.	DESCRIPTION T	anks, Tank 24		
Site 303		ants, lant 21	FACTING: (P.A.	
WELL ID:	NORTHING:	CACA	371487.30 BG	
MW-8	690	193,93	7 1148.170	
_	GROUNDWATER SOIL VAPOR			
MONITORING WELL LOCATED?		¥ YES	□ NO	
IS THE WELL CLEARLY LABELED? IS THE MONUMENT IN GOOD CONDITION?		☐ YES	Ma No □ No	
	M ELLISH MOUNT	SIZE & NUMBER OF BO	DLTS ON FLUSH-MOUNT LID:	
TYPE OF WELL CASING: STICK-UP OTHER	A PLOSIT-WOON	2 boits	Z(¢"	
CASING DIAMETER	LL? V/TUBING	YES	□ NO □ NO	
. –	OTTEN EGGS	NG OR CAP?	X NO	
☐ PETROLEUI ☐ OTHER ☐ WERE PICTURES TAKEN? ☒ YES ☐ NO	vi	PHOTO IDs [.]	photos tation © 1052	
ADDITIONAL NOTES OR COMMENTS: WELLOW DE 19/19 WATER IN MO	no ma n.t	⊠ god	CONDITION (CHECK ONE) DO CONDITION DERATE CONDITION	
Accident Andrew IVI IVI	y io 11 con or a		OR CONDITION	
I				



			ODE OTION			
MONITORING WELL CHECKLIST FOR LUC INSPECTION						
DATE (MM DD YY)	TIME (HH:MM). 1054		WEATHER/TEMPERATURE	<u>.</u>		
US PT 17	7037	COMPANY:	Sunnylcear			
A. Paolicei and M. Zelen	u.Hc/A	Balehe		!		
	DESCRIPTION:	12400,0				
SITE: SITE 303		nks, Tank 24				
WELL ID:	NOBTHING:	ľ	EASTING.	(B) (211)		
MW-9	64	086,39	37 1494.40	11114		
\$ \overline{\sqrt{2}} :	GROUNDWATER SOIL VAPOR	∑ YES	□ NO			
MONITORING WELL LOCATED? IS THE WELL CLEARLY LABELED? IS THE MONUMENT IN GOOD CONDITION?		☐ YES	□ NO □ NO			
TYPE OF WELL CASING	FLUSH-MOUNT	2 bolts 34"	LTS ON FLUSH-MOUNT LID:			
CASING DIAMETER	ELL? V/TUBING	YES X	□ NO □ NO			
IS THERE ANY EVIDENCE OF TAMPERING ARE THERE ANY ODORS? IF YES, DESCRIBE ODOR: SOLVENT SULFIDE/RO PETROLEU OTHER	OTTEN EGGS	NG OR CAP? YES	NO NO			
WERE PICTURES TAKEN? X YES		PHOTO IDs:	photostation (3) 1055			
ADDITIONAL NOTES OR COMMENTS:		Ø GOO	ONDITION (CHECK ONE). DO CONDITION DERATE CONDITION OR CONDITION			



MONITORING WELL CHECKLIST FOR LUC INSPECTION					
	TIME (HH:MM):		WEATHER/ŢEMPERATURE		
DATE (MMIDDIYY).	105	7	Sunny llear		
INSPECTOR.		COMPANY.	, ,		
A. Paolucei and M. Zele		Baffelle			
SITE: St.la Zo.Z	DESCRIPTION:	Wa - W 211			
St te 303	D-lumel Tal	nks, runk 24	EACTING:	(PL)	
WELL ID: MW/O	NORTHING 640	75.89	371496,20	41211	
INSPECTION CHECKLIST:	1				
	GROUNDWATER SOIL VAPOR	. .			
MONITORING WELL LOCATED? IS THE WELL CLEARLY LABELED? IS THE MONUMENT IN GOOD CONDITION?		X YES X YES X YES	□ NO		
TYPE OF WELL CASING: STICK-UP	FLUSH-MOUNT	SIZE & NUMBER OF BO	LTS ON FLUSH-MOUNT LID: นี		
CASING DIAMETER 2"	:LL? V/TUBING	X YES	□ NO □ NO		
IS THERE ANY EVIDENCE OF TAMPERING ARE THERE ANY ODORS? IF YES, DESCRIBE ODOR: SOLVENT SULFIDE/RO PETROLEU	OTTEN EGGS	G OR CAP? YES	M NO		
☐ OTHER WERE PICTURES TAKEN? [X] YES ☐ NO		PHOTO IDs:	Photostuten @ 1058		
ADDITIONAL NOTES OR COMMENTS.		∭ GOO	ONDITION (CHECK ONE) DD CONDITION DERATE CONDITION DR CONDITION		



MONITORING WELL CHECKLIST FOR LUC INSPECTION					
DATE (MM DD YY)	TIME (HH:MM)	_	WEATHER/TEMPERATURE	•	
INSPECTOR.	1100	COMPANY:	Sunny Clear		
A. Paolucei and M. Zelene	مليد	1			
SITE:		Barrelle			
Sute 303	D-Tunnel Tax	nks, Tank 24			
WELL ID:		066.30	EASTING .	(BG)	
MW-M	6 10	766.30	37 1492,50	9/5/17	
,	GROUNDWATER SOIL VAPOR				
MONITORING WELL LOCATED? IS THE WELL CLEARLY LABELED? IS THE MONUMENT IN GOOD CONDITION?		X YES X YES X YES	□ NO□ NO□ NO		
TYPE OF WELL CASING: STICK-UP OTHER	•	SIZE & NUMBER OF BO	LTS ON FLUSH-MOUNT LID:		
CASING DIAMETER	LL? //TUBING	YES	□ NO □ NO		
IS THERE ANY EVIDENCE OF TAMPERING NARE THERE ANY ODORS? IF YES, DESCRIBE ODOR: SOLVENT SULFIDE/RO PETROLEUM OTHER	TTEN EGGS	IG OR CAP? ☐ YES ☐ YES	X NO		
WERE PICTURES TAKEN? X YES ☐ NO		PHOTO IDs:	Profestation Ono		
ADDITIONAL NOTES OR COMMENTS:		∑ GOO! ☐ MODI	ONDITION (CHECK ONE) [.] D CONDITION ERATE CONDITION R CONDITION		



MONITORI	NG WELL CHECK	LIST FOR LUC IN:	SPECTION	
DATE (MMIDDIYY):	TIME (HH:MM):		WEATHER/TEMPERATURE.	
INSPECTOR	1104	COMPANY.	- Hosau	
A. Paolucei and M. Zele	nevich	Battelle		
SITE:	DESCRIPTION:	1 + 1 0.1		
Site 303	Volumetta	nks, tank 24		_
WELL ID:	NORTHING:	659,43	EASTING:	(\$6) ch
MW-B	6 9	034,15	371484.70	2017/11
	GROUNDWATER SOIL VAPOR			
MONITORING WELL LOCATED?		🔀 YES	□ NO	
IS THE WELL CLEARLY LABELED? IS THE MONUMENT IN GOOD CONDITION?		TYES	M NO	
	TLUSH-MOUNT	YES	☐ NO LTS ON FLUSH-MOUNT LID [.]	
OTHER	A PLOSH-WOOM	2 bolts	CTS ON FEOSH-MOUNT EID	
CASING DIAMETER 🕍 2" 🗌 4" 🗎 6"	8" OTHER_			
IS THE CASING IN GOOD CONDITION?		X YES	□ NO	
IS THERE A CAP ON THE MONITORING WEI TYPE OF CAP: PVC SLIP CAP	L?	X YES	☐ NO	
J-PLUG				
☐ EXPANSION ☐ PRODUCȚION W	/TURING			
M OTHER VMW (<u> </u>			
IS THERE ANY EVIDENCE OF TAMPERING V	WITH THE WELL CASIN	G OR CAP? YES	⊠ NO	
ARE THERE ANY ODORS? IF YES, DESCRIBE ODOR: ☐ SOLVENT		☐ YES	X NO	
SULFIDE/RO	TTEN EGGS			
☐ PETROLEUM	I			
☐ OTHER WERE PICTURES TAKEN? ☑ YES		PHOTO IDs:	Pnotos taten	
□ NO			<u> 3 107</u>	
ADDITIONAL NOTES OR COMMENTS.			ONDITION (CHECK ONE):	•
		/ \	CONDITION ERATE CONDITION	
			R CONDITION	



MONITORING WELL CHECKLIST FOR LUC INSPECTION				
DATE (MMIDDIYY) 02 12417	TIME (HH:MM):		WEATHER, TEMPERATURE SUNAY CHANGE	
INSPECTOR:		COMPANY.	1100	
A. Paoluce and M. Zelene	wich	Battelle		
SITE:	DESCRIPTION			
Site 303	D-TunnelTa	nks,Tank24 058.55		
WELL ID:	NORTHING:		EASTING: (86)	
MW-1	6 9	058.55	371474.50 Yalslin	
INSPECTION CHECKLIST:				
_	GROUNDWATER SOIL VAPOR			
MONITORING WELL LOCATED?		∑ YES	□ NO	
IS THE WELL CLEARLY LABELED?		YES	□ NO	
IS THE MONUMENT IN GOOD CONDITION?	4	YES	□ NO	
TYPE OF WELL CASING: STICK-UP OTHER	FLUSH-MOUNT	SIZE & NUMBER OF BC	DLTS ON FLUSH-MOUNT LID:	
CASING DIAMETER 💢 2" 🔲 4" 🔲 6"	□8" □ OTHER			
IS THE CASING IN GOOD CONDITION?		X YES	□ NO	
IS THERE A CAP ON THE MONITORING WE	LL?	X YES	□ NO	
TYPE OF CAP PVC SLIP CAP				
☐ J-PLUG ☐ EXPANSION				
☐ PRODUCTION V	V/TUBING			
TOTHER VIMWO	Cap			
IS THERE ANY EVIDENCE OF TAMPERING	WITH THE WELL CASI	NG OR CAP? YES	XXÍ NO	
ARE THERE ANY ODORS?		☐ YES	🙇 no	
IF YES, DESCRIBE ODOR ☐ SOLVENT				
	OTTEN EGGS			
☐ PETROLEUI	VI			
WERE PICTURES TAKEN? X YES		PHOTO IDs	_ III) photos	
□ NO			<u>tation</u>	
ADDITIONAL NOTES OR COMMENTS:		GENERAL C	ONDITION (CHECK ONE)	
			DD CONDITION	
		_	DERATE CONDITION	
		∐ P00	R CONDITION	



MONITORING WELL CHECKLIST FOR LUC INSPECTION				
DATE (MMIDDIYY)	TIME (HH·MM)		WEATHER/TEMPERATURE	=
08/29/17	1121	COMPANY:	Sunnyllear	
INSPECTOR:	not do	Butelle		
A. Paducci and M. Zelen	DESCRIPTION:	<u> </u>		
Site 303	D-Tunnel T	auks, Tank a		<u> </u>
WELL ID:	NORTHING:	2.05	EASTING.	(BG) 15/17
MW-2	6 406	۷,۷۵	371464.60	
	GROUNDWATER SOIL VAPOR	∑ Yes	□, NO	
IS THE WELL CLEARLY LABELED?		T YES	💆 ио	
IS THE MONUMENT IN GOOD CONDITION?		YES	□ NO	
TYPE OF WELL CASING: STICK-UP	FLUSH-MOUNT	SIZE & NUMBER OF BO	DLTS ON FLUSH-MOUNT LID:	
CASING DIAMETER 2" 4" 6" IS THE CASING IN GOOD CONDITION? IS THERE A CAP ON THE MONITORING WE TYPE OF CAP PVC SLIP CAP J-PLUG EXPANSION PRODUCTION N	v/tubing	X YES	□ NO	
IS THERE ANY EVIDENCE OF TAMPERING ARE THERE ANY ODORS? IF YES, DESCRIBE ODOR: SOLVENT SULFIDE/RI PETROLEU OTHER	OTTEN EGGS	ING OR CAP? 🏹 YES	X NO	
WERE PICTURES TAKEN? X YES ☐ NO		PHOTO IDs	hetos talin 1123	
ADDITIONAL NOTES OR COMMENTS:		,	CONDITION (CHECK ONE):	
Burted under ~3" of	tdirtsoll.	<u></u> мог	DD CONDITION DERATE CONDITION DR CONDITION	



MONITORING WELL CHECKLIST FOR LUC INSPECTION				
DATE (MMIDDIYY).	TIME (HH:MM): リノント		WEATHER/TEMPERATURE	
INSPECTOR A. Paolvai and M. Zelene	wich	COMPANY: Battelle	, ,	
SITE:	DESCRIPTION.	1 2001 (2011		
Site 303	D-Tunnel To	inks, Tank 24		
WELL ID:	NORTHING [.]	68.96	371428,00	86)
INSPECTION CHECKLIST: TYPE OF MONITORING WELL: MONITORING WELL LOCATED?	GROUNDWATER SOIL VAPOR	XXÍ YES XXÍ YES	□ NO □ NO	
IS THE WELL CLEARLY LABELED? IS THE MONUMENT IN GOOD CONDITION?		X YES	□ NO	
TYPE OF WELL CASING: STICK-UP OTHER	FLUSH-MOUNT	SIZE & NUMBER OF BO	OLTS ON FLUSH-MOUNT LID:	
CASING DIAMETER	V/TUBING	YES X YES	□ NO □ NO	
IS THERE ANY EVIDENCE OF TAMPERING ARE THERE ANY ODORS? IF YES, DESCRIBE ODOR: SOLVENT SULFIDE/RG PETROLEU OTHER	OTTEN EGGS	NG OR CAP? ⊠ YES ☐ YES	□ NO	
WERE PICTURES TAKEN? X YES		PHOTO IDs:	Photostation 0100	
ADDITIONAL NOTES OR COMMENTS:			CONDITION (CHECK ONE):	
wen I D plate not afixed to invent lid.	ed	Ё мог	DD CONDITION DERATE CONDITION DR CONDITION	
Wen buried under ~1" d durt/soil.				



			DECTION	
MONITORING WELL CHECKLIST FOR LUC INSPECTION				
DATE (MM DD YY);	TIME (HH·MM):		WEATHER/TEMPERATURE:	:
US 29 11 1	1131	COMPANY:	Sunny/Clear	
INSPECTOR:	Nela	Battelle		
A, faolucei and M. Zelener	DESCRIPTION:	Laurence		
SITE: S. 1 e 303		unks, Tankat		_
	NORTHING:		EASTING:	(RG)
WELL ID	64	058.99	371453.40	11/16
MW-13		0 9 . 1 /	3 . 1 (3 3 . 10	4 (()
INSPECTION CHECKLIST: TYPE OF MONITORING WELL:	GROUNDWATER			
	SOIL VAPOR			
MONITORING WELL LOCATED?		X YES ∏ YES	∏ NO)X NO	
IS THE WELL CLEARLY LABELED? IS THE MONUMENT IN GOOD CONDITION?		☐ YES	IA NO □ NO	
	M FILISH MOUNT		ĻTS ON FLUSH-MOUNT LID [.]	
TYPE OF WELL CASING ☐ STICK-UP ☐ OTHER	FLUSH-MOUNT		(pli	
		,		
CASING DIAMETER (\$\frac{1}{2}\) 2" \(\begin{array}{c} 4" \begin{array}{c} 6" \\ 1S THE CASING IN GOOD CONDITION? \end{array}		X YES	□ NO	
IS THERE A CAP ON THE MONITORING WE	LL?	X YES	□ NO	
TYPE OF CAP: PVC SLIP CAP				
☐ J-PLUG ☐ EXPANSION				
PRODUCTION V	VTUBING			
M OTHER VMW	Cap			
IS THERE ANY EVIDENCE OF TAMPERING	WITH THE WELL CASI	NG OR CAP? YES	M NO	
ARE THERE ANY ODORS?		☐ YES	X NO	
IF YES, DESCRIBE ODOR: ☐ SOLVENT☐ SULFIDE/RO	OTTEN EGGS			
PETROLEUI				
OTHER		PHOTO IDs:	Thotostaken	
WERE PICTURES TAKEN? X YES ☐ NO		FIIOTO IDS.	@ 1/32	
ADDITIONAL MOTEO OF COMMENTS		GENERAL C	ONDITION (CHECK ONE).	
ADDITIONAL NOTES OR COMMENTS			D CONDITION	
Interior lining laying within monument.			ERATE CONDITION	
Within monument.		☐ POO	R CONDITION	



MONITORING WELL CHECKLIST FOR LUC INSPECTION				
DATE (MMIDDIYY).	TIME (HH·MM):		WEATHERTEMPERATURE: Siny Clear	
INSPECTOR:		COMPANY:	,	
A. Paolocal and M. Zeler	revich	Battelle		
SITE:	DESCRIPTION			
S1 fe 303	D-Tunnel Tax	1KS, Tankat		
WELL ID:	NORTHING:		EASTING:	
MW-4	6 90	78.83	37 1458.20 95/17	
INSPECTION CHECKLIST:				
 1	GROUNDWATER SOIL VAPOR			
MONITORING WELL LOCATED?	SOIL VAPOR	⊠ YES	□ NO	
IS THE WELL CLEARLY LABELED?		X YES	□ NO	
IS THE MONUMENT IN GOOD CONDITION?		X YES	□ NO	
	FLUSH-MOUNT	SIZE & NUMBER OF BO	OLTS ON FLUSH-MOUNT LID:	
OTHER	·	_ 2 belts 3		
CASING DIAMETER 🔀 2" 🗌 4" 🔲 6"	8" OTHER_			
IS THE CASING IN GOOD CONDITION?		X YES	□ NO□ NO	
IS THERE A CAP ON THE MONITORING WEI TYPE OF CAP: PVC SLIP CAP	LL?	X YES	□ NO	
☐ J-PLUG				
EXPANSION				
☐ PRODUCTION W				
<i>/</i> ·	ı	CORCARO D VEC	M NO	
IS THERE ANY EVIDENCE OF TAMPERING WITH THE WELL CASING OR CAP?				
IF YES, DESCRIBE ODOR: SOLVENT				
SULFIDE/RO				
☐ PETROLEUM ☐ OTHER	1			
WERE PICTURES TAKEN? X YES		PHOTO IDs:	Photostaken	
☐ NO			<u> </u>	
				
ADDITIONAL NOTES OR COMMENTS		GENERAL CO	ONDITION (CHECK ONE):	
			D CONDITION	
		· -	ERATE CONDITION R CONDITION	
			CONDITION	



MONITORING WELL CHECKLIST FOR LUC INSPECTION				
DATE (MM DD YY)	TIME (HH MM)		WEATHER/TEMPERATUR	RE.
68/29/17	1144		Sunny Clear	
INSPECTOR:		COMPANY:	1.	
A Photocal and M.2		Battelle		
SITE: SIte 303	DESCRIPTION:	e line line	t	
		inks, Tank 2		(5)
WELL ID	NORTHING: L 4	088.17	EASTING	AILIN
MW-5	0 ,	1,000	371459,80	78(0)
INSPECTION CHECKLIST: TYPE OF MONITORING WELL:	GROUNDWATER			
·	SOIL VAPOR			
MONITORING WELL LOCATED?		💢 YES	☐ NO	
IS THE WELL CLEARLY LABELED?		☐ YES	IX NO	
IS THE MONUMENT IN GOOD CONDITION?	¥1	X YES	□ NO	
TYPE OF WELL CASING STICK-UP OTHER	FLUSH-MOUNT	SIZE & NUMBER OF BO	LTS ON FLUSH-MOUNT LID:	
			4 3	
CASING DIAMETER 2" 4" 6" IS THE CASING IN GOOD CONDITION?	U8" U OTHER_		□ NO	
IS THERE A CAP ON THE MONITORING WEI	L?	M YES	□ NO	
TYPE OF CAP: PVC SLIP CAP		^		
☐ J-PLUG				
☐ EXPANSION ☐ PRODUÇTION W/TUBING				
OTHER VMW	Cap_			
IS THERE ANY EVIDENCE OF TAMPERING V	WITH THE WELL CASIN	G OR CAP? YES	Д NO Д NO	
ARE THERE ANY ODORS?		☐ YES	Í X NO	
IF YES, DESCRIBE ODOR· ☐ SOLVENT ☐ SULFIDE/RO	TTEN EGGS			
☐ PETROLEUM				
OTHER			Pu Golden	
WERE PICTURES TAKEN? X YES ☐ NO		PHOTO IDs:	4 no restation	
_ NO				
ADDITIONAL MOTEO OD COMUSATO		05/150/1-04		
ADDITIONAL NOTES OR COMMENTS:		,	DONDITION (CHECK ONE) [.]	
interior Immy falling Inside monument.				
Inside monument.		POOF	RCONDITION	



MONITORING WELL CHECKLIST FOR LUC INSPECTION				
DATE (MMIDDIYY)	TIME (HH:MM)		WEATHER/TEMPERATURE: Synny (Lear	
INSPECTOR		COMPANY:	341.71	
A. Paolucei and M. Zele	nevich	Battelle		
SITE.	DESCRIPTION.			
Site 303	D-TunnelTa	nks, Tanka4	GA -	
WELL ID.	NORTHING:	50E 42	EASTING.	
MW-6	6 7	095.43	37 1467, 60 9/11)	
	GROUNDWATER SOIL VAPOR	∑XIYES □ YES NXIYES	□ NO X NO □ NO	
	FLUSH-MOUNT	\mathcal{F}	ULTS ON FLUSH-MOUNT LID.	
☐ OTHER	-	2 bolts 34	it	
CASING DIAMETER 2" 4" 6" IS THE CASING IN GOOD CONDITION? IS THERE A CAP ON THE MONITORING WE TYPE OF CAP: PVC SLIP CAP J-PLUG EXPANSION PRODUCTION V	V/TUBING	YES	□ NO □ NO	
IS THERE ANY EVIDENCE OF TAMPERING ARE THERE ANY ODORS? IF YES, DESCRIBE ODOR: SOLVENT SULFIDE/RO PETROLEUI	OTTEN EGGS	NG OR CAP?	X NO	
☐ OTHER ☐ WERE PICTURES TAKEN? ☑ YES ☐ NO		PHOTO IDs:	Photos taten @ 1148	
ADDITIONAL NOTES OR COMMENTS.		<u> </u>	ONDITION (CHECK ONE).	
well rocated in middle of road, well ~ 3ft deep in monv.	nont.	☐ MOD	DD CONDITION DERATE CONDITION PR CONDITION	



MONITORI	NG WELL CHECK	LIST FOR LUC IN:	SPECTION
DATE (MMIDDIYY)	TIME (HH·MM). 1152		WEATHER/TEMPERATURE: Sunny Kiean
INSPECTOR:	1156	COMPANY:	Johny Gezov
A. Paolixe and M. Zeler	nevich	Battelle	
SITE.	DESCRIPTION		
Site 303	D-Tunnel Tax	nks, Tank 24	
WELL ID:	NORTHING:	~ ^ e 11 ~	EASTING: (BG)
Mw-7	6 9	096,43	37 1477.90 4011)
	GROUNDWATER SOIL VAPOR		
MONITORING WELL LOCATED? IS THE WELL CLEARLY LABELED? IS THE MONUMENT IN GOOD CONDITION?		XX YES □ YES XX YES	□ NO NO NO
TYPE OF WELL CASING: STICK-UP	T FLUSH-MOUNT	SIZE & NUMBER OF BO	DLTS ON FLUSH-MOUNT LID
CASING DIAMETER 2" 4" 6" IS THE CASING IN GOOD CONDITION? IS THERE A CAP ON THE MONITORING WE TYPE OF CAP: PVC SLIP CAP J-PLUG EXPANSION PRODUCTION W	, LL? //TUBING	nder water YES YES	□ NO voderwater
IS THERE ANY EVIDENCE OF TAMPERING ARE THERE ANY ODORS? IF YES, DESCRIBE ODOR: SOLVENT SULFIDE/RC	OTTEN EGGS	IG OR CAP? YES	X NO
☐ OTHER WERE PICTURES TAKEN? X YES ☐ NO		PHOTO IDs:	Pholos taken @ 1152
ADDITIONAL NOTES OR COMMENTS:		GENERAL C	ONDITION (CHECK ONE)
entre well casing and cap are under standing w	o tour	☐ MOD	DECONDITION Under water R CONDITION
are under standing w	WW,		
some sheek in water.			



MONITORING WELL CHECKLIST FOR LUC INSPECTION				
DATE (MM DD YY).	TIME (HH:MM):		WEATHER/TEMPERATURE	
INSPECTOR.	1217	COMPANY:	My Clear	
Afaolucu and M. Zelen	ench	Battelle		
SITE:	DESCRIPTION:	- 1 1		
Site 303	DTUNNETTO	inks, Tank 21	0	
WELL ID:	NORTHING:	120 00	EASTING:	
MW-9	69	139,62	371330,10 91117	
INSPECTION CHECKLIST TYPE OF MONITORING WELL:				
	GROUNDWATER SOIL VAPOR			
MONITORING WELL LOCATED?		💆 YES	□ NO	
IS THE WELL CLEARLY LABELED?		YES		
IS THE MONUMENT IN GOOD CONDITION?	M FLUOU MOUNT	X YES	NO N	
TYPE OF WELL CASING: STICK-UP OTHER	FLUSH-MOUNT	2 bolts 3	DLTS ON FLUSH-MOUNT LID:	
CASING DIAMETER 💥 2" ☐ 4" ☐ 6"	8" OTHER_			
IS THE CASING IN GOOD CONDITION?		X YES	□ NO	
IS THERE A CAP ON THE MONITORING WE TYPE OF CAP. PVC SLIP CAP	LL?	X YES	□ NO	
☐ J-PLUG				
EXPANSION				
☐ PRODUCTION W				
IS THERE ANY EVIDENCE OF TAMPERING	•	IG OR CAP? YES	r€ NO	
ARE THERE ANY ODORS?	WITH THE WELL CASIN	YES	X NO	
IF YES, DESCRIBE ODOR: SOLVENT				
☐ SULFIDE/RC				
☐ OTHER			0 1 .1 2	
WERE PICTURES TAKEN? X YES		PHOTO IDs	Motos taven	
□NO				
ADDITIONAL NOTES OR COMMENTS		GENERAL CO	ONDITION (CHECK ONE):	
		☆ G00	D CONDITION	
Some standing water in monument,			ERATE CONDITION	
in monument.		∐ POOI	R CONDITION	



MONITORI	NG WELL CHECK	LIST FOR LUC INS	SPECTION	
DATE (MMIDDIYY) OS 139117	TIME (HH MM) [.]		WEATHER/TEMPERATURE SUNNY/CLAY	
INSPECTOR:		COMPANY	71	
A. Paolucci and M. Zeler	revich	Baltelle		
SITE:	DESCRIPTION:	La Talan		
SIte 303		nks, Tank 26	EASTING.	
WELL ID: MW-8	NORTHING: 6 L	1149.93	3.41330.30	(T)
INSPECTION CHECKLIST	L	1. 11:17	- 11-70.70	
TYPE OF MONITORING WELL:	GROUNDWATER SOIL VAPOR			
MONITORING WELL LOCATED?		X YES	□ NO	
IS THE WELL CLEARLY LABELED?		XX YES	□ NO □ NO	
IS THE MONUMENT IN GOOD CONDITION?	K FLUSH-MOUNT	<i>y</i>	DLTS ON FLUSH-MOUNT LID:	
TYPE OF WELL CASING: STICK-UP OTHER	M LEODU-MOUNT	2 boits 34"		
IS THE CASING IN GOOD CONDITION? IS THERE A CAP ON THE MONITORING WE TYPE OF CAP PVC SLIP CAP J-PLUG EXPANSION PRODUCTION V OTHER VMV IS THERE ANY EVIDENCE OF TAMPERING ARE THERE ANY ODORS?	V/TUBING	YES YES	□ NO □ NO □ NO	
IF YES, DESCRIBE ODOR: SOLVENT SULFIDE/RC PETROLEU OTHER WERE PICTURES TAKEN? NO	OTTEN EGGS M	PHOTO IDs:	<u>@ (319</u> 	
ADDITIONAL NOTES OR COMMENTS:			CONDITION (CHECK ONE):	
Nell ID plate is not			OD CONDITION DERATE CONDITION	
afixed to well tid.		POC	OR CONDITION	
Well is in middle of				
road,				
	M			
weeds grown around we	Al ,			



MONITORING WELL CHECKLIST FOR LUC INSPECTION				
DATE (MM DD YY). 08 79 17	TIME (HH:MM):	22	WEATHER/TEMPERATURE: SUMMY/CLEWY	
INSPECTOR:		COMPANY	7,500	
A. Paolucci and M. Zelen		Battelle		
SITE:	DESCRIPTION:	ti mata		
Site 303	D-Tunnel Ta	158, yanka6		
WELL ID:	NORTHING:	150 WA	EASTING:	
MW-7	0 9	138,49	37 13 25.60	
INSPECTION CHECKLIST: TYPE OF MONITORING WELL:				
——————————————————————————————————————	GROUNDWATER SOIL VAPOR			
MONITORING WELL LOCATED?		⊠ YES	□ NO	
IS THE WELL CLEARLY LABELED?		X YES		
IS THE MONUMENT IN GOOD CONDITION?	∡	∑ YES	☐ NO	
TYPE OF WELL CASING: STICK-UP OTHER	FLUSH-MOUNT	a bolts 34"	ELTS ON FLUSH-MOUNT LID	
CASING DIAMETER 2" 4" 6"	8" OTHER_			
IS THE CASING IN GOOD CONDITION?		∑ YES	□ NO	
IS THERE A CAP ON THE MONITORING WE TYPE OF CAP	LL?	X YES	□ NO	
☐ J-PLUG				
EXPANSION				
\square production w \square other \square MW	//TUBING			
/ \	•	_	h-el	
IS THERE ANY EVIDENCE OF TAMPERING TAMPERING THERE ANY ODORS?	WITH THE WELL CASIN	IG OR CAP?	X NO	
IF YES, DESCRIBE ODOR: ☐ SOLVENT		1E3	A NO	
☐ SULFIDE/RC	TTEN EGGS			
☐ PETROLEUM	1			
☐ OTHER WERE PICTURES TAKEN? X YES		PHOTO IDs.	Photos taten	
☐ NO		40	<u> </u>	
ADDITIONAL NOTES OR COMMENTS:			ONDITION (CHECK ONE):	
well located in the to	u	IXI GOOI	D CONDITION ERATE CONDITION	
Well located in the ta grass around tank	•••	_	R CONDITION	
July Monde lave	•			



MONITORING WELL CHECKLIST FOR LUC INSPECTION				
DATE (MMIDDIYY):	TIME (HH:MM): 1327		WEATHER/TEMPERATURE: SUNNY/CLEAN	
INSPECTOR.		MPANY:		
A. Paolucu and M. Zele	nevich 1	3attelle		
SITE.	DESCRIPTION:	<i></i> 11		
Site 303	D-Tunnel Tanks	Tank 26	(6)	
WELL ID:	NORTHING: 6 416	7 O N	EASTING:	
MW-6	0 110	1.48	371317.20 41/117	
	GROUNDWATER SOIL VAPOR	. 1		
MONITORING WELL LOCATED? IS THE WELL CLEARLY LABELED? IS THE MONUMENT IN GOOD CONDITION?		YES YES YES	¹ NO	
TYPE OF WELL CASING:	FLUSH-MOUNT SIZE	& NUMBER OF BOI	ts on Flush-Mount Lid.	
CASING DIAMETER	ill? V/TUBING	X YES	□ NO □ NO	
PETROLEU	OTTEN EGGS	CAP? YES	NO NO	
WERE PICTURES TAKEN? X YES NO .		PHOTO IDs [.]	hotostalan	
ADDITIONAL NOTES OR COMMENTS.		•	ONDITION (CHECK ONE):	
Well located in tall gra surrounding tunk.	<i></i> 55	MODI	D CONDITION ERATE CONDITION R CONDITION	



MONITORING WELL CHECKLIST FOR LUC INSPECTION				
DATE (MMIDDIYY): BIOLIT	TIME (HH·MM).		WEATHERITEMPERATURE	
INSPECTOR: Afablice and MiZeler	evi U	COMPANY. Battelle	/1	
SITE: Site 303	DESCRIPTION:	nKS, Tank 26		_
WELL ID. MW-S	NORTHING: 64	164.62	EASTING: 371306,90	915/17
—	GROUNDWATER SOIL VAPOR			
MONITORING WELL LOCATED? IS THE WELL CLEARLY LABELED? IS THE MONUMENT IN GOOD CONDITION?		YES X YES X YES	NONONO	
TYPE OF WELL CASING: STICK-UP OTHER	FLUSH-MOUNT	SIZE & NUMBER OF BO	LTS ON FLUSH-MOUNT LID	
CASING DIAMETER		X YES X YES L> ENT	□ NO □ NO , not oh well casting.	
IS THERE ANY EVIDENCE OF TAMPERING VARE THERE ANY ODORS? IF YES, DESCRIBE ODOR: SOLVENT SULFIDE/RO PETROLEUM	TTEN EGGS	G OR CAP? YES	X NO	
WERE PICTURES TAKEN? YES		PHOTO IDs:	Photos taken @ 1333	
ADDITIONAL NOTES OR COMMENTS:			ONDITION (CHECK ONE): D CONDITION	
Placed well cap back on well.		🗂 моді	ERATE CONDITION R CONDITION	



MONITORING WELL CHECKLIST FOR LUC INSPECTION				
DATE (MMIDDIYY):	TIME (HH:MM). 1335		WEATHER/TEMPERATUR	E·
INSPECTOR		COMPANY:	<i>ps. m. y</i> 10 = 10	
A. Padwcei and M. Zelenei	rich	Battelle		
SITE.	DESCRIPTION:	. — 101		
SI42303	D-Tunnel Tax	nks, lankale		_
WELL ID:	NORTHING:	160.43	EASTING:	Bookin
MW-Y	67	160.93	371297,70	(V (V)
INSPECTION CHECKLIST:				
- A	GROUNDWATER SOIL VAPOR			
MONITORING WELL LOCATED?		YES YES	□ NO	
IS THE WELL CLEARLY LABELED?			<u></u>	
IS THE MONUMENT IN GOOD CONDITION?	Δ.,	⊠ YES	☐ NO	
TYPE OF WELL CASING: STICK-UP OTHER	FLUSH-MOUNT	SIZE & NUMBER OF BO	LTS ON FLUSH-MOUNT LID:	
CASING DIAMETER 💢 2" 🔲 4" 🔲 6"	8" OTHER			
IS THE CASING IN GOOD CONDITION?		X YES	□ NO	
IS THERE A CAP ON THE MONITORING WE	LL?	X YES	□ NO	
TYPE OF CAP: PVC SLIP CAP J-PLUG				
☐ EXPANSION				
PRODUCTION W	//TUBING			
X OTHER VMW (ap			
IS THERE ANY EVIDENCE OF TAMPERING	WITH THE WELL CASIN		X NO X NO	
ARE THERE ANY ODORS? IF YES, DESCRIBE ODOR: ☐ SOLVENT		☐ YES	X NO	
Sulfide/Ro	TTEN EGGS			
PETROLEUM	1			
OTHER	· · · · · · · · · · · · · · · · · · ·	DUOTO ID	Dr. tact kon	
WERE PICTURES TAKEN? X YES ☐ NO		PHOTO IDs:	Ø 1337	
ADDITIONAL NOTES OR COMMENTS:		GENERAL CO	ONDITION (CHECK ONE)	
			CONDITION	
well was covered by brush.			ERATE CONDITION R CONDITION	
by brush.			COMBINON	



MONITORI	NG WELL CHECK	LIST FOR LUC INS		
DATE (MM/DD/YY):	TIME (HH:MM): 1339		WEATHER/TEMPERATURE	:
INSPECTOR:	1221	COMPANY		
A. Paolice and M. Zeler	nevich	Battelle		
SITE	DESCRIPTION.			
Site 303	0-Turnel To	inks, Tank 26		(6)
WELL ID: MW-3	NORTHING: 64	151.77	371 29 2.30	11119
	GROUNDWATER SOIL VAPOR			
MONITORING WELL LOCATED? IS THE WELL CLEARLY LABELED? IS THE MONUMENT IN GOOD CONDITION?		XX YES XX YES XX YES	□ NO□ NO	
TYPE OF WELL CASING	FLUSH-MOUNT	SIZE & NUMBER OF BC	PLTS ON FLUSH-MOUNT LID:	
CASING DIAMETER	LL? V/TUBING	YES	□ NO □ NO	
PETROLEU	OTTEN EGGS	NG OR CAP? ☐ YES ☐ YES	М NO Ж NO	
☐ OTHER WERE PICTURES TAKEN? ☒ YES ☐ NO		PHOTO IDs:	Photos taten	
ADDITIONAL NOTES OR COMMENTS:			CONDITION (CHECK ONE)	
Standing water.			DD CONDITION DERATE CONDITION	
Standing water in well monument.		_	OR CONDITION	



MONITORI	NG WELL CHECK	LIST FOR LUC INS	SPECTION	
DATE (MMIDDIYY).	TIME (HH:MM).		WEATHER/TEMPERATURE	<u>:</u>
INSPECTOR:	***	COMPANY:	71	
A.Paolucci and M. Z	Zelinewich	Baltelle		
SITE:	DESCRIPTION:			
Site303	D-Tunnel To	ints, Tank-26		
WELL ID:	NORTHING:	20 (0	EASTING:	(86)
MW-2	6 71.	38.18	371294,10	7/2/11
INSPECTION CHECKLIST: TYPE OF MONITORING WELL:	GROUNDWATER			
<u> </u>	SOIL VAPOR			
MONITORING WELL LOCATED?		X YES	□ NO	
IS THE WELL CLEARLY LABELED? IS THE MONUMENT IN GOOD CONDITION?		∐ YES [X] YES	™ NO □ NO	
•	X FLUSH-MOUNT			
☐ OTHER	A 1 20311-W00N1	2 bolts 34	LTS ON FLUSH-MOUNT LID:	
CASING DIAMETER 💢 2" 🔲 4" 🔲 6"	□8" □ OTHER			
IS THE CASING IN GOOD CONDITION?		X YES	□ NO	
IS THERE A CAP ON THE MONITORING WEI	_L?	X YES	□ NO	
TYPE OF CAP: PVC SLIP CAP J-PLUG				
EXPANSION				
☐ PRODUCTION W ☑ OTHER VMW				
, ,	1	0.0D.0AB2	M NO	
IS THERE ANY EVIDENCE OF TAMPERING NARE THERE ANY ODORS?	WITH THE WELL CASIN	G OR CAP? YES	⊠ no ⊠ no	
IF YES, DESCRIBE ODOR SOLVENT		_	~	
SULFIDE/RO				
OTHER	<u>. </u>		~	
WERE PICTURES TAKEN? X YES		PHOTO IDs	Indostaten	
□ NO			<u> </u>	
ADDITIONAL NOTES OR COMMENTS			ONDITION (CHECK ONE). CONDITION	
Well is ~2ft down in monument.			ERATE CONDITION	
monument.		POOF	RCONDITION	



MONITORING WELL CHECKLIST FOR LUC INSPECTION					
DATE (MM DD YY)	TIME (HH:MM)		WEATHER/TEMPERATURE	:	
08/29/17	1349		Sunny Clear		
INSPECTOR:		COMPANY.	, .		
A Paolucci and M. Zelene		Battelle			
SITE:	DESCRIPTION:	No to 1 7/2			
Site 303		nks, Tank 26	EASTING.	(PC)	
WELL ID: MW-(NORTHING: 64	1133.33	37 1296.60	MAHIL	
·	GROUNDWATER SOIL VAPOR		_		
MONITORING WELL LOCATED? IS THE WELL CLEARLY LABELED? IS THE MONUMENT IN GOOD CONDITION?		∭X YES ☐ YES ∭X YES	[™] NO		
TYPE OF WELL CASING: STICK-UP OTHER	•	SIZE & NUMBER OF BO	LTS ON FLUSH-MOUNT LID:		
CASING DIAMETER	v/TUBING	YES	□ NO □ NO		
IS THERE ANY EVIDENCE OF TAMPERING ARE THERE ANY ODORS? IF YES, DESCRIBE ODOR: SOLVENT SULFIDE/RO PETROLEU	WITH THE WELL CASIN	NG OR CAP?	M NO		
WERE PICTURES TAKEN? MYES		PHOTO IDs:	Photos taken		
ADDITIONAL NOTES OR COMMENTS:		XX GOO	CONDITION (CHECK ONE): DD CONDITION DERATE CONDITION DR CONDITION		



MONITORING WELL CHECKLIST FOR LUC INSPECTION				
DATE (MMIDDIYY)	TIME (HH:MM): 1353		WEATHER/TEMPERATURE:	
INSPECTOR		COMPANY [.]	7000	
A. Paoluci and M.Ze		Battelle	. 406.6	
SITE:	DESCRIPTION:	· 4-	~1	
Site 303	D-Tunnel Tax	nks, Tank:	He	<u></u>
WELL ID.	NORTHING: 4126	1 11	EASTING:	(86)
MW-12	6 7100	0.78	371306.30	417[[1
INSPECTION CHECKLIST				
_ ,	GROUNDWATER SOIL VAPOR			
MONITORING WELL LOCATED?		🔼 YES	□ NO	
IS THE WELL CLEARLY LABELED?		YES		
IS THE MONUMENT IN GOOD CONDITION?	\ 4	X YES	□ NO	
TYPE OF WELL CASING	FLUSH-MOUNT SIZ	ZE & NUMBER OF BOI	LTS ON FLUSH-MOUNT LID:	
CASING DIAMETER 2" 4" 6"	□8" □ OTHER	•		
IS THE CASING IN GOOD CONDITION?			□ NO	
IS THERE A CAP ON THE MONITORING WE	LL?	DX YES	□ NO	
TYPE OF CAP. PVC SLIP CAP				
☐ J-PLUG ☐ EXPANSION				
☐ PRODUCTION W	//TUBING			
OTHER VMW				
IS THERE ANY EVIDENCE OF TAMPERING	WITH THE WELL CASING (OR CAP? YES	ĭX NO	
ARE THERE ANY ODORS?		☐ YES	X NO	
IF YES, DESCRIBE ODOR: SOLVENT			,	
☐ SULFIDE/RC				
☐ PETROLEGIA	и			
WERE PICTURES TAKEN? X YES		PHOTO IDs:	Photostalon	
□ NO			<u>@ 1355</u>	
ADDITIONAL NOTES OR COMMENTS:			ONDITION (CHECK ONE):	
1 poks live soray insulation	\wedge	X GOOL	O CONDITION ERATE CONDITION	
looks like spray insulation or "Good SAVR" M	•	_	R CONDITION	
A GOOD STATE IN		_		
well monument.				



MONITORING WELL CHECKLIST FOR LUC INSPECTION					
DATE (MM DD YY).	TIME (HH MM) 359		WEATHER/TEMPERATURE		
08/29/17	1359	,	Snny Clear		
INSPECTOR:		COMPANY:	, ,		
A. Paducel and M. Zel		Battelle			
SITE. CA 202	DESCRIPTION.	· La offile N			
Site 303		anks, Tank 26			
WELLID:	NORTHING:	126.11	EASTING: 37 1315, 70 95/17		
MW-N	0 (100.11	7 / 1212, 70 42/[/]		
INSPECTION CHECKLIST: TYPE OF MONITORING WELL:	GROUNDWATER				
	SOIL VAPOR				
MONITORING WELL LOCATED?		X YES	□ NO		
IS THE WELL CLEARLY LABELED? IS THE MONUMENT IN GOOD CONDITION?		☐ YES	X NO □ NO		
	FLUSH-MOUNT		LTS ON FLUSH-MOUNT LID:		
OTHER		2 bolts 3	4 u		
CASING DIAMETER 💆 2" 🔲 4" 🔲 6"	□8" □ OTHER	,			
IS THE CASING IN GOOD CONDITION?		YES	□ NO] under water		
IS THERE A CAP ON THE MONITORING WE	LL?	YES	□ NO		
TYPE OF CAP: PVC SLIP CAP J-PLUG					
EXPANSION					
PRODUCTION WITUBING OTHER XVMW (ap					
(wb)	1		₩		
IS THERE ANY EVIDENCE OF TAMPERING N	WITH THE WELL CASIN	IGORCAP? ☐ YES MATYES	NO AMP		
IF YES, DESCRIBE ODOR: SOLVENT)	American		
☐ SULFIDE/RO					
☐ PETROLEUM 【X OTHER 【Sìd	. 1/./				
WERE PICTURES TAKEN? X YES	7 7 5	PHOTO IDs:	Photos taken		
□ NO			<u>@ 1700</u>		
ADDITIONAL NOTES OR COMMENTS:		- 4	ONDITION (CHECK ONE).		
Standing water up to		, ,	D CONDITION ERATE CONDITION		
Standing water up to top of casing in well monument.		_	R CONDITION		
top or casing in well					
monument.					



MONITORING WELL CHECKLIST FOR LUC INSPECTION					
DATE (MM DD YY): 08 39 17	TIME (HH:MM):	WEATHER/TEMPERATURE:			
INSPECTOR: A. Paoluci and M.	COMPANY:	2			
Site 303	D-Tunnel Tanks, Tav	1K26			
WELL ID:	NORTHING: 6 4 13 1.03	EASTING: 371324.80 (36)			
INSPECTION CHECKLIST TYPE OF MONITORING WELL:	GROUNDWATER SOIL VAPOR				
MONITORING WELL LOCATED? IS THE WELL CLEARLY LABELED? IS THE MONUMENT IN GOOD CONDITION?	<u> </u> X X	YES NO YES NO YES NO			
TYPE OF WELL CASING: STICK-UP OTHER	200	R OF BOLTS ON FLUSH-MOUNT LID:			
CASING DIAMETER	LL?	YES NO Underwater			
IS THERE ANY EVIDENCE OF TAMPERING ARE THERE ANY ODORS? IF YES, DESCRIBE ODOR: SOLVENT SULFIDE/RO PETROLEUM	OTTEN EGGS	YES X NO			
WERE PICTURES TAKEN? X YES	PHO	TO IDS: Thotos taken G 1404			
ADDITIONAL NOTES OR COMMENTS: Standing water up to and slightly above top of Casing.	•	ERAL CONDITION (CHECK ONE) GOOD CONDITION MODERATE CONDITION POOR CONDITION			



MONITORING WELL CHECKLIST FOR LUC INSPECTION				
DATE (MM DD YY)	TIME (HH·MM)		WEATHER/TEMPERATURE:	
08/29/17	143		Sunny/clear	
A. Paolucci and M. Zeles	and la	COMPANY: Battelle	,	
		Detitere		
Site 303	DESCRIPTION TO	inks, Tank 21	e .	
WELL ID:	NORTHING:		EASTING:	
MW-13	64157,40		371286.10	
\overline{\over	GROUNDWATER SOIL VAPOR		⊠ ' no	
MONITORING WELL LOCATED? IS THE WELL CLEARLY LABELED?		☐ YES	D NO	
IS THE MONUMENT IN GOOD CONDITION?		YES	□ NO	
TYPE OF WELL CASING: STICK-UP OTHER	FLUSH-MOUNT	SIZE & NUMBER OF BO	LTS ON FLUSH-MOUNT LID:	
CASING DIAMETER	LL?	☐ YES☐ YES	□ NO □ NO	
IS THERE ANY EVIDENCE OF TAMPERING NAME THERE ANY ODORS? IF YES, DESCRIBE ODOR: SOLVENT SULFIDE/ROPETROLEUN OTHER	TTEN EGGS	G OR CAP? YES	□ NO □ NO	
WERE PICTURES TAKEN? ☐ YES ☐ NO		PHOTO IDs:		
ADDITIONAL NOTES OR COMMENTS:		GENERAL CO	ONDITION (CHECK ONE):	
Used GPS coordinates and		=	D CONDITION ERATE CONDITION	
could not locate well.		= '	R CONDITION	
	•			
Most likely covered by tree				
altaris (tree was recently	cutaoun	s \		
detarts (free was recently and the debots 13 piled who	ere well should	te).		



MONITORING WELL CHECKLIST FOR LUC INSPECTION						
DATE (MM DD YY).	TIME (HH MM).	5	WEATHER/TEMPERATURE			
INSPECTOR:		COMPANY.	/*			
A.Paolucei and M.Zela	r:	Battelle				
SITE:	DESCRIPTION:	TO W TOURS	15			
Site 303	NOTUNE.	Janks, lank	EASTING:	(R)		
WELL ID: MW-2	NORTHING: 6	Tanks, Tank 2 1093,78	371368.90	(1) APP		
INSPECTION CHECKLIST:						
	GROUNDWATER SOIL VAPOR					
MONITORING WELL LOCATED?		X YES				
IS THE WELL CLEARLY LABELED? IS THE MONUMENT IN GOOD CONDITION?		☐ YES	IXI NO IXI NO			
TYPE OF WELL CASING: STICK-UP	FLUSH-MOUNT	_	\sim			
OTHER						
CASING DIAMETER 2" 4" 6" 6" IS THE CASING IN GOOD CONDITION?	8" OTHER_	 	⊠ ио			
IS THERE A CAP ON THE MONITORING WE TYPE OF CAP:	LL?	☐ YES	⊠ NO			
☐ J-PLUG ☐ EXPANSION						
☐ PRODUCTION W ☐ OTHER						
IS THERE ANY EVIDENCE OF TAMPERING	WITH THE WELL CASIN	NG OR CAP? XYES	□ NO			
ARE THERE ANY ODORS? IF YES, DESCRIBE ODOR: ☐ SOLVENT		YES	🕱 ио			
SULFIDE/RO	OTTEN EGGS					
☐ PETROLEUM						
☐ OTHER ☐ OTHER ☐ WERE PICTURES TAKEN? ☐ YES		PHOTO IDs:	Photos taken			
□ NO			<u>@1496</u>			
		•				
ADDITIONAL NOTES OR COMMENTS:		_	ONDITION (CHECK ONE).			
* No I'd or monument			D CONDITION ERATE CONDITION			
to well; only PVC.		X P00	ERATE CONDITION R CONDITION			
2" casting coming out						
** AO II'd or monument to well; only PVC. 2" casting coming out Will of ground surface	*					
'- 0	· v-					



MONITORING WELL CHECKLIST FOR LUC INSPECTION				
DATE (MM DD YY): 08/29/17	TIME (HH·MM):		WEATHER/TEMPERATURE Synny/Clear	
INSPECTOR. A. Paolucu and M. Zelen	•	company: Battelle	//	
Site 303	DESCRIPTION: D-Tunnel Ta	nKs, Tank 25		<u> </u>
WELL ID. MW-13	NORTHING: 64	nKs, Tank 25 099.57	371361.06	
	GROUNDWATER SOIL VAPOR			
MONITORING WELL LOCATED? IS THE WELL CLEARLY LABELED? IS THE MONUMENT IN GOOD CONDITION?		YES XX YES	□ NO	:
TYPE OF WELL CASING: STICK-UP OTHER	FLUSH-MOUNT	2 bolts 3	LTS ON FLUSH-MOUNT LID:	
CASING DIAMETER	//TUBING	YES YES	□ NO □ NO	
IS THERE ANY EVIDENCE OF TAMPERING NARE THERE ANY ODORS? IF YES, DESCRIBE ODOR: SOLVENT SULFIDE/RO PETROLEUM	OTTEN EGGS	IG OR CAP? ☐ YES ☐ YES	X NO	
WERE PICTURES TAKEN? X YES ☐ NO		PHOTO IDs:	Photos taken @ 1500	
ADDITIONAL NOTES OR COMMENTS:			ONDITION (CHECK ONE): D CONDITION	
Well located in tall grass around tank.		∏ мор	ERATE CONDITION R CONDITION	



MONITORING WELL CHECKLIST FOR LUC INSPECTION					
DATE (MM DD YY). 08 29 17	TIME (HH·MM):	q	WEATHER TEMPERATURE. Swyny Clear		
INSPECTOR:	1	COMPANY.	sorry pour		
A. Paoluces and M.Z	zelenevich	Battelle			
SITE:	DESCRIPTION:				
Site 303	D-Tunnel To	25.46			
WELL ID:	NORTHING:	25118	EASTING:		
MW-I	0 9 (23.40	371248.00 94117		
INSPECTION CHECKLIST:					
 4	GROUNDWATER SOIL VAPOR				
MONITORING WELL LOCATED?		⊠ YES □ YES	□ NO		
IS THE WELL CLEARLY LABELED? IS THE MONUMENT IN GOOD CONDITION?		∐ YES MX YES	M NO □ NO		
	M SUIGUNAUNT	7			
TYPE OF WELL CASING	XI FLUSH-MOUNT	2 bolts	3/L		
CASING DIAMETER 🕅 2" ☐ 4" ☐ 6"	8" OTHER_		,		
IS THE CASING IN GOOD CONDITION?		X YES	□ NO		
IS THERE A CAP ON THE MONITORING WE	LL?	X YES	□ NO		
TYPE OF CAP: PVC SLIP CAP J-PLUG					
EXPANSION					
☐ PRODUCTION W/TUBING ▼ OTHER VMW Cap					
IS THERE ANY EVIDENCE OF TAMPERING	WITH THE WELL CASIN	G OR CAP? YES	XINO XINO		
ARE THERE ANY ODORS? IF YES, DESCRIBE ODOR: SOLVENT			× NO		
SULFIDE/RO	TTEN EGGS				
☐ PETROLEUM	Л				
☐ OTHER WERE PICTURES TAKEN? 🛣 YES		PHOTO IDs	PhotoStaken		
□ NO			@ [5]6		
ADDITIONAL NOTES OR COMMENTS:			ONDITION (CHECK ONE)		
UMW Cap Plex tube		•	D CONDITION ERATE CONDITION		
is missingl not		-	R CONDITION		
connected to Soil		•			
UMW Cap flex tube is missing I not connected to Soil Sentry collection Syste	em,				
Serin / which is it if it	-				



MONITORING WELL CHECKLIST FOR LUC INSPECTION					
DATE (MMIDDIYY)	TIME (HH·MM)	3	WEATHER/TEMPERATURE:		
INSPECTOR A. Paolucul and M. Zel	erevich	COMPANY. Battelle	//		
SITE: Site 303	DESCRIPTION: D-Tunnel Tax	iks, Tank 29			
WELL ID: MW-7	NORTHING: 6 40	124,52	EASTING: 371246.70	91112	
	GROUNDWATER SOIL VAPOR				
MONITORING WELL LOCATED? IS THE WELL CLEARLY LABELED? IS THE MONUMENT IN GOOD CONDITION?		IX YES XI YES XI YES	□ NO□ NO		
TYPE OF WELL CASING: STICK-UP OTHER	FLUSH-MOUNT	SIZE & NUMBER OF BC	DLTS ON FLUSH-MOUNT LID:		
CASING DIAMETER	LL? //TUBING	YES X YES	□ NO □ NO		
PETROLEUM	OTTEN EGGS	NG OR CAP? ☐ YES	X NO □ NO		
☐ OTHER WERE PICTURES TAKEN? 【☐ YES ☐ NO		PHOTO IDs:	Phytostaten 1/217		
additional notes or comments. Standing waker at be of well monument	ootlom	⊠ GOC	CONDITION (CHECK ONE). DD CONDITION DERATE CONDITION OR CONDITION		



MONITORING WELL CHECKLIST FOR LUC INSPECTION				
DATE (MMIDDIYY).	TIME (HH·MM).		WEATHER TEMPERATURE: SUNNY GLAN	
INSPECTOR:	121	COMPANY.	201119	
A. Paolixci and M. Zele	neulch	Balfelle		
SITE.	DESCRIPTION:			
Site 303	OtonnelTa	nks, tank 29	6	
WELL ID:	NORTHING 7 14	175 (4	EASTING:	
MW-6	6 %	433.18	371240.40 9/5/17	
MONITORING WELL LOCATED? IS THE WELL CLEARLY LABELED? IS THE MONUMENT IN GOOD CONDITION? TYPE OF WELL CASING: OTHER	FLUSH-MOUNT	2 botts 39	☐ NO ☑ NO ☐ NO LTS ON FLUSH-MOUNT LID:	
CASING DIAMETER 4" 6" IS THE CASING IN GOOD CONDITION? IS THERE A CAP ON THE MONITORING WE TYPE OF CAP PVC SLIP CAP J-PLUG EXPANSION PRODUCTION V	v/TUBING	Morwater YES	NO Underwater	
PETROLEU	OTTEN EGGS	NG OR CAP? YES	X NO	
OTHER WERE PICTURES TAKEN? MYES NO		PHOTO IDs	Photostaten 149	
ADDITIONAL NOTES OR COMMENTS: Well casing + cap Submerged in standing Water.)	GOO	ONDITION (CHECK ONE): D CONDITION ERATE CONDITION R CONDITION	



MONITORING WELL CHECKLIST FOR LUC INSPECTION				
DATE (MMIDDIYY) GRK917	TIME (HH·MM):	•	WEATHER/TEMPERATURE: Sunny/Clear	
INSPECTOR:	•	COMPANY.		
A.Paoluca and M. Zelen	evich	Buttelle		
SITE:	DESCRIPTION:	1.		
Site303	D-Tunnel Ja	nks, Tank 29		
WELL ID.	NORTHING:	112 (8 (EASTING (G)	
MW-5	6 9	436,86	37 1231,60 4017	
INSPECTION CHECKLIST				
	GROUNDWATER SOIL VAPOR			
MONITORING WELL LOCATED?		X YES	□. NO	
IS THE WELL CLEARLY LABELED?		TYES	Ø NO	
IS THE MONUMENT IN GOOD CONDITION?	M	X YES	□ NO	
TYPE OF WELL CASING: STICK-UP OTHER	FLUSH-MOUNT	a buts 3	DLTS ON FLUSH-MOUNT LID	
CASING DIAMETER 2" 4" 6" IS THE CASING IN GOOD CONDITION? IS THERE A CAP ON THE MONITORING WEI TYPE OF CAP. PVC SLIP CAP J-PLUG EXPANSION PRODUCTION W OTHER WWW C	LL? //TUBING	YES YES G OR CAP? YES YES	□ NO vaderwater □ NO □ NO □ NO □ NO	
ARE THERE ANY ODORS? IF YES, DESCRIBE ODOR: SOLVENT SULFIDE/RO PETROLEUN OTHER WERE PICTURES TAKEN? YES NO	OTTEN EGGS M	PHOTO IDs:	Inotos taten @ 1623	
ADDITIONAL NOTES OR COMMENTS: Standing water M Well monument; to top of cosing.		Ж 6001 <u>—</u> морі	ONDITION (CHECK ONE) D CONDITION ERATE CONDITION R CONDITION	
10 10 10 10 10				



MONITORING WELL CHECKLIST FOR LUC INSPECTION					
DATE (MMIDDIYY)	TIME (HH·MM)		WEATHER/TEMPERATUR	E	
INSPECTOR		COMPANY:	——— <i>[</i> //		
A. Pablocci and M. Zelene	wich	Battelle			
SITE.	DESCRIPTION.				
Site 303	D-Tunnel Tank	15, Tank 29		(P)	
WELL ID:	NORTHING:	114 A A	EASTING	9/7/17	
MW-4	6 70	149.98	85,282178		
INSPECTION CHECKLIST TYPE OF MONITORING WELL:	GROUNDWATER				
	SOIL VAPOR				
MONITORING WELL LOCATED?		X YES	□ NO		
IS THE WELL CLEARLY LABELED?		☐ YES	Ø NO □ NO		
IS THE MONUMENT IN GOOD CONDITION? TYPE OF WELL CASING: ☐ STICK-UP					
TYPE OF WELL CASING: STICK-UP	A FLOSH-MOUNT	2 bolts 3	in the second se		
KYVY	8" OTHER_				
CASING DIAMETER 2" 4" 6" is the casing in good condition?	[] 8 [] OTHER_	☐ YES	□ NO		
IS THERE A CAP ON THE MONITORING WE	LL?	☐ YES	□ NO	1	
TYPE OF CAP: ☐ PVC SLIP CAP ☐ J-PLUG			could Not well open spa.		
EXPANSION			open 8/29.		
PRODUCTION V	V/TUBING		· Olc = 1		
OTHER			□ .uo		
IS THERE ANY EVIDENCE OF TAMPERING	WITH THE WELL CASIN	NG OR CAP? X YES	☐ NO □ NO		
ARE THERE ANY ODORS? IF YES, DESCRIBE ODOR: ☐ SOLVENT					
. — — — — — — — — — — — — — — — — — — —	OTTEN EGGS				
☐ PETROLEU ☐ OTHER	M 		2 : 11		
WERE PICTURES TAKEN? X YES		PHOTO IDs	Photos taten		
□ NO					
ADDITIONAL NOTES OR COMMENTS:			CONDITION (CHECK ONE):		
Dug up under b" of gra in access road to nort	vel	=	OD CONDITION DERATE CONDITION		
in access road to north	nof	<u>—</u>	OR CONDITION		
Tank 29.					
• -	. 1 أ				
Could NOT remove well I	IA!				



MONITORING WELL CHECKLIST FOR LUC INSPECTION					
DATE (MMIDDIYY): 08/24/17	TIME (HH:MM):		WEATHER/TEMPERATURE: Sunny (Clean)		
INSPECTOR:		COMPANY			
A. Paducci and M. Zeler	nevich	Battelle			
SITE:	DESCRIPTION.				
Site 303	D-Tunnel Tax	nks, Tank 29			
WELL ID:	NORTHING:	/	EASTING:		
MW-3	6 9	428,66	371212.00 9/17/17		
INSPECTION CHECKLIST:					
	GROUNDWATER SOIL VAPOR				
MONITORING WELL LOCATED?		🔀 YES	□ NO		
IS THE WELL CLEARLY LABELED?		YES	_		
IS THE MONUMENT IN GOOD CONDITION?		X YES	∐ NO		
TYPE OF WELL CASING: STICK-UP OTHER	FLUSH-MOUNT	2 to 13	DLTS ON FLUSH-MOUNT LID:		
CASING DIAMETER 2" 4" 6"	□ 8" 🗖 OTHER 🛂	nderwater			
IS THE CASING IN GOOD CONDITION?	1 -	YES	no underwater		
IS THERE A CAP ON THE MONITORING WE TYPE OF CAP TYPE OF CAP PVC SLIP CAP	LL?	\□ YES	NO OTHER VOTES		
☐ J-PLUG					
☐ EXPANSION					
PRODUCTION WITUBING There in the control of the co					
IS THERE ANY EVIDENCE OF TAMPERING		IG OR CAP?	⊠ NO		
ARE THERE ANY ODORS?	WITH THE WELL CASIN	YES	X NO		
IF YES, DESCRIBE ODOR: SOLVENT			, ,		
☐ SULFIDE/RC					
OTHER			Oral at Ko		
WERE PICTURES TAKEN? X YES		PHOTO IDs ⁻	Photostaken		
□ NO			191036		
ADDITIONAL NOTES OR COMMENTS	1		ONDITION (CHECK ONE)		
Well Completely Submerg	cd .	☐ MOD	PERATE CONDITION Underwater		
well completedy submerg in standing water.		P00	R CONDITION		
)		,			



MONITORING WELL CHECKLIST FOR LUC INSPECTION				
DATE (MMIDDIYY).	TIME (HH:MM) 1659		WEATHER/TEMPERATURE SONNY/CLEAN	
INSPECTOR:	1001	COMPANY	20.111/19-20-	
A.Paolucci and M.Zelene	uich	Battelle		
SITE:	DESCRIPTION:	1. 10 kan		
SIte303	D-Tunnel Tax	rks, lank 29	(6.)	
WELL ID:	NORTHING:	1420.01	EASTING.	
MW-2	6	1420.01	371207.90 9/1/1	
	GROUNDWATER SOIL VAPOR	X YES ☐ YES MX YES	□ NO X 1 NO □ NO	
	X FLUSH-MOUNT		OLTS ON FLUSH-MOUNT LID:	
CASING DIAMETER 4" 4" 6" IS THE CASING IN GOOD CONDITION? IS THERE A CAP ON THE MONITORING WE TYPE OF CAP: PVC SLIP CAP J-PLUG EXPANSION PRODUCTION V	LL?	YES YES	No interwater	
IS THERE ANY EVIDENCE OF TAMPERING ARE THERE ANY ODORS? IF YES, DESCRIBE ODOR: SOLVENT SULFIDE/RO PETROLEU OTHER WERE PICTURES TAKEN? X YES	OTTEN EGGS	ING OR CAP? YES YES	Photostaken	
NO NO			<u> </u>	
ADDITIONAL NOTES OR COMMENTS: Well casing and cap are submerged under water.		GOC	CONDITION (CHECK ONE): DOD CONDITION DERATE CONDITION OR CONDITION	



MONITORING WELL CHECKLIST FOR LUC INSPECTION				
DATE (MMIDDIYY)	TIME (HH:MM) 1705		WEATHER/TEMPERATURE SUMMY/CLEAN	•
inspector. A. Paolucci and M. Zelon		COMPANY: Baffelle		
site: Site 303	D-Tunnel To	anks, Tank29		- 0
WELL ID. MW-13	NODTUNG	434.50	EASTING: 37 1206.20	911/17
· —	GROUNDWATER SOIL VAPOR			
MONITORING WELL LOCATED? IS THE WELL CLEARLY LABELED? IS THE MONUMENT IN GOOD CONDITION?		∑∭ YES ☐ YES ∭ YES	☐ NO	
TYPE OF WELL CASING DITHER	FLUSH-MOUNT	SIZE & NUMBER OF BO	LTS ON FLUSH-MOUNT LID:	
CASING DIAMETER 2" 4" 6" IS THE CASING IN GOOD CONDITION? IS THERE A CAP ON THE MONITORING WEI TYPE OF CAP: PVC SLIP CAP J-PLUG EXPANSION PRODUCTION W	LL? V/TUBING	YES	□ NO □ NO	
IS THERE ANY EVIDENCE OF TAMPERING TAME THERE ANY ODORS? IF YES, DESCRIBE ODOR: SOLVENT SULFIDE/RO PETROLEUM	OTTEN EGGS	NG OR CAP? ☐ YES ☐ YES	M NO	
☐ OTHER WERE PICTURES TAKEN? ☑ YES ☐ NO		PHOTO IDs:	Profos taten @ 1708	
ADDITIONAL NOTES OR COMMENTS: Well located in the bounded water in well monument.	osh,	X GOO ☐ MOD	ONDITION (CHECK ONE): D CONDITION ERATE CONDITION R CONDITION	



MONITORING WELL CHECKLIST FOR LUC INSPECTION					
DATE (MM DD YY):	TIME (HH·MM).		WEATHER/TEMPERATURE: SUMMY/GEAL		
INSPECTOR:	, , , , , ,	COMPANY:	7/		
A.Paolucy and M.Z	elenevich	Baltelle			
SITE: SIte 303	DESCRIPTION:	6 1 - T 1 7a			
· · · · · · · · · · · · · · · · · · ·	D-Tunnel To NORTHING:	anks, Tank 29	EASTING (RF)		
WELL ID: MW-1		09.96	371208.60		
INSPECTION CHECKLIST		07.70	3 7.0 0.00		
7	GROUNDWATER SOIL VAPOR				
MONITORING WELL LOCATED? IS THE WELL CLEARLY LABELED? IS THE MONUMENT IN GOOD CONDITION?		YES YES	□ NO X NO □ NO		
TYPE OF WELL CASING: STICK-UP	FLUSH-MOUNT	SIZE & NUMBER OF BO	DLTS ON FLUSH-MOUNT LID [.]		
CASING DIAMETER	//TUBING	nderwater Yes Yes	no voder water		
IS THERE ANY EVIDENCE OF TAMPERING ARE THERE ANY ODORS? IF YES, DESCRIBE ODOR: SOLVENT SULFIDE/RO PETROLEUI	DTTEN EGGS	IG OR CAP? ☐ YES ☐ YES	X NO		
☐ OTHER WERE PICTURES TAKEN? ☑ YES ☐ NO		PHOTO IDs ⁻	Photos taken 1712		
ADDITIONAL NOTES OR COMMENTS: Well cashigand lid Completely submerged under water.		∫□ GOO □ MOD	ONDITION (CHECK ONE): D CONDITION ERATE CONDITION R CONDITION		



MONITORING WELL CHECKLIST FOR LUC INSPECTION					
DATE (MMIDDIYY): 08/29/17	TIME (HH·MM)·	WEATHER/TEMPERATURE: Sunny/Clear			
INSPECTOR.	COMPANY:	· //			
A. Puolocci and M. Zel	eneutch				
Site 303	D-Tunnel Tanks, Tank 29 NORTHING: 64403.29				
WELL ID:	NORTHING:	EASTING: (BG)			
MW-12	6440 3 .29	371217,30 4/1/17			
INSPECTION CHECKLIST:					
	GROUNDWATER SOIL VAPOR				
MONITORING WELL LOCATED?	Ŋ YE	s 🗌 NO			
IS THE WELL CLEARLY LABELED?	YE				
IS THE MONUMENT IN GOOD CONDITION?	, X	S NO			
TYPE OF WELL CASING: STICK-UP OTHER	A FLUSH-MOUNT SIZE & NUMBER OF 2 bolts	BOLTS ON FLUSH-MOUNT LID			
CASING DIAMETER 2" 4" 6"	8" OTHER				
IS THE CASING IN GOOD CONDITION?	LL?	s □ NO			
IS THERE A CAP ON THE MONITORING WEI	LL? 💆 YE	S NO			
TYPE OF CAP: ☐ PVC SLIP CAP ☐ J-PLUG					
☐ 54 E00					
PRODUCTION W	//TUBING				
TOTHER VMW	Cap				
IS THERE ANY EVIDENCE OF TAMPERING N	WITH THE WELL CASING OR CAP? YE	s 🕱 no			
ARE THERE ANY ODORS?	☐ YE	s 🗖 no			
IF YES, DESCRIBE ODOR: ☐ SOLVENT ☐ SULFIDE/RO	TTEN FOOD	·			
☐ SULFIDE/RO					
OTHER					
WERE PICTURES TAKEN? 💢 YES	PHOTO ID	s: <u>Photostaken</u>			
□ NO					
ADDITIONAL NOTES OR COMMENTS:	GENERAL	CONDITION (CHECK ONE):			
C23 a 1		OOD CONDITION			
Standing water in well monument.		DDERATE CONDITION			
well monument.	[] PC	OOR CONDITION			



MONITORING WELL CHECKLIST FOR LUC INSPECTION					
DATE (MMIDDIYY).	TIME (HH·MM):		WEATHER/TEMPERATURE:		
INSPECTOR:	,,,,,,	COMPANY:	John y Lacov		
A. Paolucei and May ?	Zelonevich	Battelle			
SITE [.]	DESCRIPTION:	1			
Site 363	D-Tunnel la	inks, tank 29			
WELL ID.	NORTHING:	403, 29	EASTING:	(86)	
MW-N	6 9	903, 29	371217,30	AM17	
<u> </u>	GROUNDWATER SOIL VAPOR				
MONITORING WELL LOCATED?		X YES	□ NO 1 X / NO		
IS THE WELL CLEARLY LABELED? IS THE MONUMENT IN GOOD CONDITION?		☐ YES [X] YES) ⊠ NO □ NO		
	FLUSH-MOUNT	, ,	LTS ON FLUSH-MOUNT LID:		
CASING DIAMETER (2" 4" 6"	□8" □ OTHER	, ,			
IS THE CASING IN GOOD CONDITION?		X YES	☐ NO		
IS THERE A CAP ON THE MONITORING WE TYPE OF CAP: PVC SLIP CAP	LL?	X YES	□ NO		
J-PLUG					
EXPANSION	(TUDINO				
☐ PRODUCTION W X OTHER MWW(W UBING				
IS THERE ANY EVIDENCE OF TAMPERING	•	IG OR CAP? YES	⊠ NO		
ARE THERE ANY ODORS?		YES	⊠ NO		
IF YES, DESCRIBE ODOR: ☐ SOLVENT ☐ SULFIDE/RO	TTEN EGGS				
☐ SULTIDERC					
OTHER		DUOTO ID-	Photostaken		
WERE PICTURES TAKEN? X YES ☐ NO		PHOTO IDs:	@ 1720		
ADDITIONAL NOTES OR COMMENTS:		GENERAL CO	ONDITION (CHECK ONE):		
		⊠ GOOI	CONDITION		
Standing water M Well monument.			ERATE CONDITION R CONDITION		
Well monument.			COMBINOR		



MONITORING WELL CHECKLIST FOR LUC INSPECTION						
DATE (MMIDDIYY):	TIME (HH·MM):	Y	WEATHER TEMPERATURE.			
INSPECTOR	<u> </u>	COMPANY:	71			
A Paolikel and M. Zelen	evich	Butelle				
SITE:	DESCRIPTION:					
Site 303	D-Tunnel Tax	nks, Jank 29				
WELL ID.	NORTHING:	400.01	EASTING:			
MW-10	6 4	400.07	77 1235,80 CALVIT			
INSPECTION CHECKLIST: TYPE OF MONITORING WELL:	CROUNDWATER					
	GROUNDWATER SOIL VAPOR					
MONITORING WELL LOCATED?		I ▼ YES	□ NO			
IS THE WELL CLEARLY LABELED?		☐ YES	NO NO			
IS THE MONUMENT IN GOOD CONDITION?	H SUISINE NOUNT					
☐ OTHER		26/15 34"	LTS ON FLUSH-MOUNT LID:			
CASING DIAMETER 2" 4" 6"	□ 8" X OTHER _	nder water				
IS THE CASING IN GOOD CONDITION?						
IS THERE A CAP ON THE MONITORING WELL? TYPE OF CAP. PVC SLIP CAP						
☐ J-PLUG						
☐ EXPANSION ☐ PRODUCTION W/TUBING						
OTHER Underwater						
IS THERE ANY EVIDENCE OF TAMPERING		IG OR CAP? ☐ YES	XÍ NO			
ARE THERE ANY ODORS?		YES	X NO			
IF YES, DESCRIBE ODOR: SOLVENT			•			
U SULFIDE/RC	OTTEN EGGS M					
OTHER	···		0. 1 . i-h			
WERE PICTURES TAKEN? YES		PHOTO IDs:	Photos taken			
☐ NO						
ADDITIONAL NOTES OR COMMENTS		1	D CONDITION (CHECK ONE)			
Well casing and cop completely submerged under water.		\ □ MOD	erate condition underwater			
Completely submerged		☐ POO	R CONDITION)			
under water.						
1						



MONITORING WELL CHECKLIST FOR LUC INSPECTION					
DATE (MM DD YY): OS 29 17	TIME (HH:MM)		WEATHER/TEMPERATURE. SUMY CHEAN		
INSPECTOR:	•	COMPANY: Buttelle	H-10-1		
A.Paoluci and M.Zelen	DESCRIPTION:	Burieue			
Site 303		inks Tank 29			
WELL ID:	NORTHING:	<i>!!</i> !! !! !!	EASTING:		
MW-9	6 9	405.98	37 1245.10 9HM		
<u> </u>	GROUNDWATER SOIL VAPOR				
MONITORING WELL LOCATED? IS THE WELL CLEARLY LABELED?		MX YES ☐ YES	□ NO ⊠ NO		
IS THE MONUMENT IN GOOD CONDITION?		YES	□ NO		
TYPE OF WELL CASING: STICK-UP OTHER	FLUSH-MOUNT	SIZE & NUMBER OF BC	DLTS ON FLUSH-MOUNT LID:		
CASING DIAMETER 2" 4" 6" IS THE CASING IN GOOD CONDITION? IS THERE A CAP ON THE MONITORING WEI TYPE OF CAP: PVC SLIP CAP J-PLUG EXPANSION PRODUCTION W OTHER LIMIT	LL? //TUBING	Nerwoter Yes	no under worter		
IS THERE ANY EVIDENCE OF TAMPERING NARE THERE ANY ODORS? IF YES, DESCRIBE ODOR: SOLVENT SULFIDE/RO PETROLEUM OTHER	TTEN EGGS	G OR CAP? YES	NO NO		
WERE PICTURES TAKEN? YES		PHOTO IDs.	Protos taken @1729		
ADDITIONAL NOTES OR COMMENTS:		λ	ONDITION (CHECK ONE):		
Well monument totally fi	oll	\ \ \	D CONDITION FOR A CONTRACTOR		
w/water.		l —	erate condition interwater		
W/water. Shown on water.		1			



MONITORING WELL CHECKLIST FOR LUC INSPECTION					
DATE (MMIDDIYY)	TIME (HH:MM).	WEATHER/TEMPERATURE. Syny Clear			
INSPECTOR:	COMPAN	NY. / V			
Ailaducci and MiZe	denerth Butte	elle			
SITE:	DESCRIPTION:	5 1. 2a			
Site 303	D-Tunnel Tanks, To	(00)			
WELL ID: MW-&	64 414.50	371 348, 60 915/17			
INSPECTION CHECKLIST	01 41,20	371348,60 415/17			
TYPE OF MONITORING WELL []	GROUNDWATER SOIL VAPOR				
MONITORING WELL LOCATED?		X YES ☐ NO			
IS THE WELL CLEARLY LABELED? IS THE MONUMENT IN GOOD CONDITION?		☐ YES XXNO XX YES ☐ NO			
TYPE OF WELL CASING. STICK-UP	M FLUSH-MOUNT SIZE & NUI	MBER OF BOLTS,ON FLUSH-MOUNT LID:			
☐ OTHER	2	bolts 34"			
CASING DIAMETER 2" 4" 6" IS THE CASING IN GOOD CONDITION? IS THERE A CAP ON THE MONITORING WE TYPE OF CAP: PVC SLIP CAP J-PLUG EXPANSION PRODUCTION W OTHER VICTOR	LL? //TUBING (ap	To yes on no undurwater Yes on No			
IS THERE ANY EVIDENCE OF TAMPERING ARE THERE ANY ODORS? IF YES, DESCRIBE ODOR: SOLVENT SULFIDE/RC PETROLEUM OTHER	OTTEN EGGS	P YES NO			
WERE PICTURES TAKEN? ☐ YES ☐ NO		PHOTO IDS: Vinotos taken @ (733			
ADDITIONAL NOTES OR COMMENTS:		GENERAL CONDITION (CHECK ONE):			
Water in well monumen to top of casing.	nt	GOOD CONDITION MODERATE CONDITION POOR CONDITION			



MONITORIA	NG WELL CHECKLIST FOR LUC IN	SPECTION
		WEATHER/TEMPERATURE
DATE (MMIDDIYY)	TIME (HH:MM): NO 6733171 08-33 0856	Clary Ramy
INSPECTOR:	COMPANY:	11
A. Paolucci and M. Zeles	nevich Battelle	
SITE:	DESCRIPTION:	
SIte 303	D-Tunnel Tanks, Tank 30	EASTING.
WELL ID. MW-5	NORTHING: 64 20.31	711719 05.90151 05
INSPECTION CHECKLIST:		
	GROUNDWATER SOIL VAPOR	
MONITORING WELL LOCATED? IS THE WELL CLEARLY LABELED? IS THE MONUMENT IN GOOD CONDITION?	YES YES	NO NO
TYPE OF WELL CASING: STICK-UP OTHER	FLUSH-MOUNT SIZE & NUMBER OF B 2 bolls 3/c	OLTS ON FLUSH-MOUNT LID [.]
CASING DIAMETER		□ NO' is relatively clear.
IS THERE ANY EVIDENCE OF TAMPERING ARE THERE ANY ODORS? IF YES, DESCRIBE ODOR: SOLVENT SULFIDE/RO PETROLEU	☐ YES	<i>1</i> 2
☐ OTHER WERE PICTURES TAKEN? ☑ YES ☐ NO	PHOTO ID:	Phoks taken @ 0890
ADDITIONAL NOTES OR COMMENTS:	,	CONDITION (CHECK ONE).
LAVIA Filled with water	·	OOD CONDITION ODERATE CONDITION
to too of monument	-, PC	OOR CONDITION
to top of monument some shoen in water.		



MONITORING WELL CHECKLIST FOR LUC INSPECTION					
DATE (MM DD YY): 08/30/17	TIME (HH MM).	9	WEATHER/TEMPERATURE	,	
INSPECTOR		COMPANY:	, , , , , , , , , , , , , , , , , , , ,		
A. Paulveel and M. Zele	new ch Battelle				
SITE:	DESCRIPTION:	1 1.05			
Site 303	D-Tunnel Ta				
WELL ID	NORTHING: 6 4.	tin cc	EASTING:	(Br)	
MW-Y	6 %	218.77	371269.10	4111	
,	GROUNDWATER SOIL VAPOR				
MONITORING WELL LOCATED?		⊠ YES	□ NO		
IS THE WELL CLEARLY LABELED? IS THE MONUMENT IN GOOD CONDITION?		X YES	□ NO □ NO		
	TUSH-MOUNT	~	_		
☐ OTHER	FLUSH-MUUNT	2 wits 34	LTS ON FLUSH-MOUNT LID		
CASING DIAMETER 2" 4" 6" IS THE CASING IN GOOD CONDITION? IS THERE A CAP ON THE MONITORING WEI TYPE OF CAP: PVC SLIP CAP J-PLUG EXPANSION PRODUCTION W	/TUBING	YES YES	□ NO underwater □ NO		
IS THERE ANY EVIDENCE OF TAMPERING NARE THERE ANY ODORS? IF YES, DESCRIBE ODOR: SOLVENT SULFIDE/RO PETROLEUM	TTEN EGGS	G OR CAP? YES	X NO		
WERE PICTURES TAKEN? X YES		PHOTO IDs:	Photos taken @1001		
ADDITIONAL NOTES OR COMMENTS	The state of the s	3 -	ONDITION (CHECK ONE):		
hold in date is not		7	O CONDITION ERATE CONDITION		
Well ID plate is <u>not</u> aboved to well lid.		= =====================================	R CONDITION		
Well located in tall gras	ζ				
Water in monument	<i>"</i>				
up to top of casing.					
, ,					



MONITORING WELL CHECKLIST FOR LUC INSPECTION					
DATE (MMIDDIYY): . OSIBO 17	TIME (HH:MM) 1005		WEATHER/TEMPERATURE: FUMY/Clovely		
INSPECTOR:		COMPANY.	<i>,</i> , ,		
A. Paolvici and M. Zelen		Battelle			
site: STE303	DESCRIPTION:	rks. Tank30			
WELL ID:	NORTHING:		EASTING:		
MW-3	64.	nks, Tank 30 5 10.34	371261.90 9/1117		
, — <u>,</u>	GROUNDWATER SOIL VAPOR	[X]YES [X]YES [V]YES	□ NO □ NO □ NO		
	T FLUSH-MOUNT	7	DLTS ON FLUSH-MOUNT LID		
CASING DIAMETER 2" 4" 6" IS THE CASING IN GOOD CONDITION? IS THERE A CAP ON THE MONITORING WE TYPE OF CAP PVC SLIP CAP J-PLUG EXPANSION PRODUCTION V	V/TUBING	YES YES	□ NO underwater; but, □ NO wateris clear.		
IS THERE ANY EVIDENCE OF TAMPERING ARE THERE ANY ODORS? IF YES, DESCRIBE ODOR: SOLVENT SULFIDE/RO PETROLEU OTHER	OTTEN EGGS	NG OR CAP?	NO NO		
WERE PICTURES TAKEN? (YES NO		PHOTO IDs [.]	(a) 1000		
ADDITIONAL NOTES OR COMMENTS:		¥	CONDITION (CHECK ONE):		
well located in tall or	ass.	,	DERATE CONDITION Underwater		
Wen ID Plute is not afixed		, —	OR CONDITION		
to well I'd.	1709	1			
Well carry teap are Submerged under wat	completely er.				
· · · · · · · · · · · · · · · · · · ·					



MONITORING WELL CHECKLIST FOR LUC INSPECTION				
DATE (MMIDDIYY)	TIME (HH:MM)	O	weather/temperatur	Ε.
INSPECTOR: A. Paolicul and M. Zolen	evich	COMPANY. Buffelle		
SITE: SITE303	DESCRIPTION: D-Tunnel Tar	nks, Tank 30		
WELL ID: MW-Z	NORTHING: 64	500.73	37 12 5 9,50	PHIN
	GROUNDWATER SOIL VAPOR			
MONITORING WELL LOCATED? IS THE WELL CLEARLY LABELED? IS THE MONUMENT IN GOOD CONDITION?		Y YES YES Y YES	☐ NO	
TYPE OF WELL CASING:	FLUSH-MOUNT	SIZE & NUMBER OF BO	DLTS ON FLUSH-MOUNT LID:	
CASING DIAMETER	v/TUBING	YES	□ NO □ NO	
PETROLEUI	OTTEN EGGS	NG OR CAP? YES	X NO	
☐ OTHER WERE PICTURES TAKEN? 【 YES ☐ NO	<u> </u>	PHOTO IDs:	Photos taken (Q) 1013	
ADDITIONAL NOTES OR COMMENTS: Well located in tall grad	%.	⊠ GOC ☐ MOD	CONDITION (CHECK ONE): DD CONDITION DERATE CONDITION DR CONDITION	
:				



MONITORING WELL CHECKLIST FOR LUC INSPECTION					
DATE (MMIDDIYY): 08/30/17	TIME (HH:MM). JOLS		WEATHER/TEMPERATURE - Faciny/Coody		
INSPECTOR:		COMPANY:	, ,		
A. Paolucci and M. Zelene	vich	Baffelle			
SITE [.]	DESCRIPTION.				
Site303		nts, Tank 30			
WELL ID:	NORTHING:		EASTING: (BG)		
MW-1	6 4	492,22	371261.60 9/1917		
4.	GROUNDWATER SOIL VAPOR				
MONITORING WELL LOCATED? IS THE WELL CLEARLY LABELED?		X YES	□ NO □ NO		
IS THE WELL CLEARLY LABELED? IS THE MONUMENT IN GOOD CONDITION?		X YES	□ NO		
TYPE OF WELL CASING: STICK-UP OTHER	•	SIZE & NUMBER OF BO	DLTS ON FLUSH-MOUNT LID:		
CASING DIAMETER 2" 4" 6" IS THE CASING IN GOOD CONDITION? IS THERE A CAP ON THE MONITORING WE TYPE OF CAP PVC SLIP CAP J-PLUG EXPANSION PRODUCTION W	//TUBING	YES YES	□ NO Undervater □ NO		
IS THERE ANY EVIDENCE OF TAMPERING ARE THERE ANY ODORS? IF YES, DESCRIBE ODOR: SOLVENT SULFIDE/RO PETROLEUN	OTTEN EGGS	IG OR CAP? ☐ YES ☐ YES	X NO		
WERE PICTURES TAKEN? X YES		PHOTO IDs:	Photos taken @ 1014		
ADDITIONAL NOTES OR COMMENTS: Well adjacent to light Water in manument y top of casing. Well ID plate not allow to well Itd.	post. to	X GOOD	ONDITION (CHECK ONE) [.] D CONDITION ERATE CONDITION R CONDITION		



MONITORING WELL CHECKLIST FOR LUC INSPECTION				
DATE (MMIDD(YY): **SOL17	time (hh:mm) [.] 1018		WEATHER/TEMPERATURE - RAMY/CLOUDY	
INSPECTOR:		COMPANY:	///	
A. Paowcei and M. Zelenevi		Battelle		
SITE: Site 303	DESCRIPTION .	1 to 1 70		
		nks, Tank 30	FAOTING (GC)	
WELL ID: MW-12	NORTHING 64	183.55	371269.50 (BG) 9/1/17	
	GROUNDWATER SOIL VAPOR			
MONITORING WELL LOCATED? IS THE WELL CLEARLY LABELED? IS THE MONUMENT IN GOOD CONDITION?		又 YES 又 YES 又 YES	□ NO□ NO	
TYPE OF WELL CASING: STICK-UP OTHER	KÎ FLUSH-MOUNT	SIZE & NUMBER OF BOI	LTS ON FLUSH-MOUNT LID:	
CASING DIAMETER	.L? /TUBING	☐ YES☐ YES	□ NO underwater; but; clear to see.	
IS THERE ANY EVIDENCE OF TAMPERING VARE THERE ANY ODORS? IF YES, DESCRIBE ODOR: SOLVENT SULFIDE/RODET PETROLEUM OTHER	TTEN EGGS	G OR CAP? YES	X NO	
WERE PICTURES TAKEN? K☐ YES ☐ NO		PHOTO IDs:	<u> Inotos tulun</u> 	
ADDITIONAL NOTES OR COMMENTS:			ONDITION (CHECK ONE)	
Water in monument, sub.	murging	☐ MODE	D CONDITION ERATE CONDITION	
well casing and corp.	• •	POOR	RCONDITION	
•				



MONITORING WELL CHECKLIST FOR LUC INSPECTION					
DATE (MM DD YY). O8/30/1	TIME (HH·MM)·		WEATHER/TEMPERATUR	KE.	
INSPECTOR:		COMPANY.			
A Paolucci and M. Zelene	wich	Ballelle		-w	
SITE: SITe 303 WIR	DESCRIPTION NX D-TURNEL T	Janks, Tank 30			
WELL ID:	NORTHING:	1-11-01	EASTING	(BG) (ELIE	
MW-3	6 4	174.81	371274.90	7/-2 ((")	
-	GROUNDWATER SOIL VAPOR				
MONITORING WELL LOCATED?		X YES	□ NO		
IS THE WELL CLEARLY LABELED? IS THE MONUMENT IN GOOD CONDITION?		X YES	□ NO □ NO		
TYPE OF WELL CASING: STICK-UP			DLTS ON FLUSH-MOUNT LID		
OTHER		2 boits 34			
CASING DIAMETER 2" 4" 6" IS THE CASING IN GOOD CONDITION? IS THERE A CAP ON THE MONITORING WE TYPE OF CAP PVC SLIP CAP J-PLUG EXPANSION PRODUCTION W OTHER VMW	LL? V/TUBING	I X YES X YES	□ NO □ NO		
IS THERE ANY EVIDENCE OF TAMPERING ARE THERE ANY ODORS? IF YES, DESCRIBE ODOR: SOLVENT SULFIDE/RO PETROLEUM OTHER	OTTEN EGGS	IG OR CAP?	⊠ NO		
WERE PICTURES TAKEN? ☐ YES ☐ NO		PHOTO IDs:	Ingtos taken @ 1025		
ADDITIONAL NOTES OR COMMENTS:			ONDITION (CHECK ONE)		
Well (ocuted in tall grass		_ мор	D CONDITION ERATE CONDITION R CONDITION		



MONITORII	NG WELL CHECK	LIST FOR LUC INS	SPECTION
DATE (MMIDDIYY)	TIME (HH:MM):		WEATHER/TEMPERATURE:
INSPECTOR: A. Paolical and M. Zelener	10-	COMPANY. Battelle	7 5 // 5
SITE:	DESCRIPTION.	D-011-011-0	
Site 303	0-Tunnel To	infs, Tank 30	_
WELL ID: MW-11	NORTHING:	480.59	EASTING 371274, 40 9/1/17
	GROUNDWATER SOIL VAPOR		
MONITORING WELL LOCATED? IS THE WELL CLEARLY LABELED? IS THE MONUMENT IN GOOD CONDITION?		M∑ YES ☐ YES M∑ YES	□ NO ∑ NO □ NO
TYPE OF WELL CASING: STICK-UP OTHER	FLUSH-MOUNT	SIZE & NUMBER OF BC	DLTS ON FLUSH-MOUNT LID:
CASING DIAMETER 2" 4" 6" IS THE CASING IN GOOD CONDITION? IS THERE A CAP ON THE MONITORING WE TYPE OF CAP: PVC SLIP CAP J-PLUG EXPANSION PRODUCTION V	LL? //TUBING	YES	□ NO □ NO
PETROLEU	OTTEN EGGS	NG OR CAP?	NO NO
☐ OTHER WERE PICTURES TAKEN? ☑ YES ☐ NO		PHOTO IDs ⁻	Photos taken @ 1028
ADDITIONAL NOTES OR COMMENTS: Standing water M we	al.	Ø GOC □ MOD	CONDITION (CHECK ONE): DD CONDITION DERATE CONDITION DR CONDITION



MONITORING WELL CHECKLIST FOR LUC INSPECTION					
DATE (MMIDDIYY): OB 130117	TIME (HH·MM)·		WEATHER/TEMPERATURE:		
INSPECTOR.		COMPANY:	Toward T		
A. Paolucul and M. Zelen		Battelle			
SITE:	DESCRIPTION:				
Site 303	V-Tunnel t	anks, Tank 30			
WELL ID: MW-10	NORTHING 64	483,62	EASTING: 37 1289.70 941n		
INSPECTION CHECKLIST:					
	GROUNDWATER SOIL VAPOR				
MONITORING WELL LOCATED?		X YES	□ NO		
IS THE WELL CLEARLY LABELED?		X YES	□ NO		
IS THE MONUMENT IN GOOD CONDITION?	الد	X YES	□ NO		
TYPE OF WELL CASING: STICK-UP OTHER	FLUSH-MOUNT	2 bolts 34"	ELTS ON FLUSH-MOUNT LID:		
CASING DIAMETER 💢 2" 🗌 4" 🔲 6"	8" OTHER_				
IS THE CASING IN GOOD CONDITION?		X YES	□ NO		
IS THERE A CAP ON THE MONITORING WE	LL?	🔀 YES	□ NO		
TYPE OF CAP					
☐ J-PLUG ☐ EXPANSION					
☐ PRODUCTION, W	//TUBING				
TOTHER VINV	op				
IS THERE ANY EVIDENCE OF TAMPERING	• WITH THE WELL CASIN	G OR CAP? YES	⊠ NO		
ARE THERE ANY ODORS?		☐ YES	X NO		
IF YES, DESCRIBE ODOR: D SOLVENT			,		
SULFIDE/RC					
☐ PETROLEUN	Л				
WERE PICTURES TAKEN? X YES	 	PHOTO IDs	Photos taken		
☐ NO			@ 1032		
ADDITIONAL NOTES OR COMMENTS:		<i>Y</i>	ONDITION (CHECK ONE):		
Clandera understa wal	A		D CONDITION ERATE CONDITION		
Standing water in well	1,		R CONDITION		



MONITORING WELL CHECKLIST FOR LUC INSPECTION					
DATE (MM DD YY) #\$\langle 130 \left 7	TIME (HH:MM): 1033		WEATHER/TEMPERATURE		
INSPECTOR		COMPANY:	11 1		
A. Paolvici and M. Zelen	erich	Battelle			
SITE. Crl. 202	DESCRIPTION				
Site 303	D-TunnelTa	nks, Tank 30			
WELL ID:	NORTHING:		EASTING	(BE) .	
MW-9	6 44	91.88	371296.80	9/1/17	
INSPECTION CHECKLIST:		1			
	GROUNDWATER SOIL VAPOR				
MONITORING WELL LOCATED?		💢 YES	□ NO		
IS THE WELL CLEARLY LABELED?		☐ YES	⋈ NO		
IS THE MONUMENT IN GOOD CONDITION?	. .	X YES	□ NO		
TYPE OF WELL CASING	FLUSH-MOUNT	SIZE & NUMBER OF BC	DLTS ON FLUSH-MOUNT LID:		
CASING DIAMETER 🗖 2" 🗌 4" 🔲 6"	8" OTHER_	•			
IS THE CASING IN GOOD CONDITION?		X YES	□ NO		
IS THERE A CAP ON THE MONITORING WE	LL?	XX YES XX YES	□ NO		
TYPE OF CAP: PVC SLIP CAP		•			
☐ J-PLUG					
☐ EXPANSION ☐ PRODUCT,ION W	//TURING				
X OTHER VMW					
IS THERE ANY EVIDENCE OF TAMPERING	1	IG OR CAP?	⊠ NO		
ARE THERE ANY ODORS?	WITH THE WELL CASIN	YES	X NO		
IF YES, DESCRIBE ODOR SOLVENT			/		
☐ SULFIDE/RC	TTEN EGGS				
PETROLEUM	Л				
OTHER		PHOTO IDs	Photos taken		
WERE PICTURES TAKEN? ☐ YES ☐ NO		PHOTOIDS	6) 1055		
ADDITIONAL NOTES OR COMMENTS:		GENERAL C	ONDITION (CHECK ONE):		
	4l	∑ GOO	D CONDITION		
Standing Water M ne	M.	₫ мод	ERATE CONDITION		
J		☐ POO	R CONDITION		



MONITORING WELL CHECKLIST FOR LUC INSPECTION				
DATE (MM DD YY): 98.130 17	TIME (HH·MM):		WEATHER/TEMPERATURE.	
INSPECTOR:		COMPANY	1/2-2-/	
A. Paolucei and M. Zelene	vich	Battelle		
SITE: Cn. 702	DESCRIPTION:			
Site 303	D-Tunnel tan	nks, Tank 30		
WELL ID:	NORTHING:	501,52	EASTING:	
MW-8	69	5 01, 2 d	771299.70 au/17	
INSPECTION CHECKLIST: TYPE OF MONITORING WELL:	GROUNDWATER			
9	SOIL VAPOR			
MONITORING WELL LOCATED?		🗖 YES	□ NO	
IS THE WELL CLEARLY LABELED? IS THE MONUMENT IN GOOD CONDITION?		☐ YES	⊠ NO □ NO	
TYPE OF WELL CASING: STICK-UP			DLTS ON FLUSH-MOUNT LID:	
•	FLUSH-WOUNT	2 boils 3/4		
CASING DIAMETER 2" 4" 6"				
IS THE CASING IN GOOD CONDITION?	□ 0 □ OTHEK	XÎ YES	□ NO	
IS THERE A CAP ON THE MONITORING WE	LL?	X YES	□ NO	
TYPE OF CAP: PVC SLIP CAP J-PLUG		•		
☐ EXPANSION				
PRODUCTION W				
X OTHER WWW.	Ψ			
IS THERE ANY EVIDENCE OF TAMPERING	WITH THE WELL CASIN	IG OR CAP? ☐ YES ☐ YES	M NO	
ARE THERE ANY ODORS? IF YES, DESCRIBE ODOR¹ ☐ SOLVENT		□ 153	X NO	
	OTTEN EGGS			
☐ PETROLEUN ☐ OTHER	М			
WERE PICTURES TAKEN? X YES		PHOTO IDs:	Photos taken	
☐ NO			<u> 0 037</u>	
ADDITIONAL NOTES OR COMMENTS:			ONDITION (CHECK ONE):	
			D CONDITION	
			PERATE CONDITION OR CONDITION	
		_		
1				



MONITORING WELL CHECKLIST FOR LUC INSPECTION					
DATE (MMIDDIXY):	TIME (HH MM). <i>j038</i>		WEATHER/TEMPERATURE:		
INSPECTOR A. Pavlycei and M. Zelen	evich	company: Barlette	7152337		
SITE 303	DESCRIPTION TO	inks, Tank 30)		
WELL ID: MW-7	NORTHING 6 4	S12,29	371296,70 86) 371296,70 9/5/17		
 	GROUNDWATER SOIL VAPOR				
MONITORING WELL LOCATED? IS THE WELL CLEARLY LABELED? IS THE MONUMENT IN GOOD CONDITION?	. 0	XX YES □ YES XX YES	□ NO □ NO		
OTHER	FLUSH-MOUNT	2 bolts	DLTS ON FLUSH-MOUNT LID:		
CASING DIAMETER 2" 4" 6" IS THE CASING IN GOOD CONDITION? IS THERE A CAP ON THE MONITORING WEI TYPE OF CAP PVC SLIP CAP J-PLUG EXPANSION PRODUCTION W OTHER IMME	//TUBING	inder water YES YES	□ NO under water		
IS THERE ANY EVIDENCE OF TAMPERING VARE THERE ANY ODORS? IF YES, DESCRIBE ODOR: SOLVENT SULFIDE/RO PETROLEUM OTHER	TTEN EGGS	NG OR CAP? YES YES	M NO		
WERE PICTURES TAKEN?		PHOTO IDs:	Photos taken @ 1039		
ADDITIONAL NOTES OR COMMENTS: Well casing and cap Completely SVb merged.		GOOI	DONDITION (CHECK ONE): D CONDITION ERATE CONDITION R CONDITION		



MONITORING WELL CHECKLIST FOR LUC INSPECTION					
DATE (MM DD YY). 98/30/17	TIME (HH:MM):		WEATHER TEMPERATURE:		
INSPECTOR A. Paolice and M. Zelene	ttch	Battelle	/		
SITE: Site 303	DESCRIPTION:	nks, Tank-30			
WELL ID. MW-6	NODTHING:	5 50.81	371288, 40 915/17		
	GROUNDWATER SOIL VAPOR				
MONITORING WELL LOCATED? IS THE WELL CLEARLY LABELED? IS THE MONUMENT IN GOOD CONDITION?		∑X YES ☐ YES ☐ YES	□ NO □ NO □ NO		
OTHER	<u> </u>	<u>a bolts 34°</u>	LTS ON FLUSH-MOUNT LID:		
CASING DIAMETER		nderwuter YES YES	□ No vadovater; but, clear □ NO to See.		
IS THERE ANY EVIDENCE OF TAMPERING ARE THERE ANY ODORS? IF YES, DESCRIBE ODOR SOLVENT SULFIDE/RO PETROLEUM	OTTEN EGGS	IG OR CAP? YES	X NO		
☐ OTHER ☐ WERE PICTURES TAKEN? ☐ YES ☐ NO		PHOTO IDs ⁻	Photos taken @ 1042		
ADDITIONAL NOTES OR COMMENTS: Well Casing and cap comple Submurged under word	eteny er.	GOOI	DINDITION (CHECK ONE): DICONDITION ERATE CONDITION RICONDITION		



MONITORING WELL CHECKLIST FOR LUC INSPECTION				
DATE (MM DD YY):	TIME (HH:MM) [.]		WEATHER TEMPERATURE:	
INSPECTOR: A. Paolixci and M. Zele		COMPANY: Bullelle	<i>,</i> , , , , , , , , , , , , , , , , , ,	
SITE:	DESCRIPTION:	,		
Site 303	D Tunnel tax	1Ks, West of Tax	nk29 EASTING: 371193,60	
WELL ID:	NORTHING 6	140200	EASTING:	BC .
0W-2	<u> </u>	110 4,49	7,111,2,60	ANIL
· · · · · · · · · · · · · · · · · · ·	GROUNDWATER SOIL VAPOR			
MONITORING WELL LOCATED?		X YES		
IS THE WELL CLEARLY LABELED?		YES	X NO	
IS THE MONUMENT IN GOOD CONDITION? TYPE OF WELL CASING		_	DLTS ON FLUSH-MOUNT LID:	
	10 Proce BN14	SIZE & NUMBER OF BC		
CASING DIAMETER	LL?	☐ YES☐ YES	X NO	
IS THERE ANY EVIDENCE OF TAMPERING S ARE THERE ANY ODORS? IF YES, DESCRIBE ODOR. SOLVENT SULFIDE/RC	OTTEN EGGS	IG OR CAP? ☐ YES ☐ YES	D NO	
☐ OTHER WERE PICTURES TAKEN? ☐ YES ☐ NO		PHOTO IDs:	Profos taken	
ADDITIONAL NOTES OR COMMENTS.			ONDITION (CHECK ONE):	
Well is just 2" PVC pij	oe		D CONDITION ERATE CONDITION	
exposed at around surf	ace	-	R CONDITION	
well is just 2" PVC pipe exposed at ground surf		1.		



MONITORING WELL CHECKLIST FOR LUC INSPECTION					
DATE (MM DD YY).	TIME (HH MM): 1055		WEATHER/TEMPERATURE Cloudy		
INSPECTOR:		COMPANY	1		
A. Paolucci and M. Ze	lenevich	Battelle			
SITE:	DESCRIPTION:				
Site 303	D-Tunnel To	anks, Tank 29			
WELL ID:	NORTHING:		EASTING: () ()		
MW-7	690	49.98	37159529 91717		
INSPECTION CHECKLIST: TYPE OF MONITORING WELL:	GROUNDWATER				
L	SOIL VAPOR				
MONITORING WELL LOCATED?		X YES	□ NO□ NO		
IS THE WELL CLEARLY LABELED? IS THE MONUMENT IN GOOD CONDITION?		X YES	∐ NO □ NO		
TYPE OF WELL CASING: STICK-UP	FLUSH-MOUNT	SIZE & NUMBER OF BO	DLTS ON FLUSH-MOUNT LID		
OTHER		2 bolts 3	/y"		
CASING DIAMETER 💢 2" ☐ 4" ☐ 6"	8" OTHER_	•			
IS THE CASING IN GOOD CONDITION?		YES	□ NO		
IS THERE A CAP ON THE MONITORING WE	LL?	X YES	□ NO		
TYPE OF CAP: ☐ PVC SLIP CAP☐ J-PLUG					
EXPANSION					
PRODUCTION Y	V/TUBING Pal				
IS THERE ANY EVIDENCE OF TAMPERING	1	IG OR CAP? 🔀 YES	□ NO		
ARE THERE ANY ODORS?	WITH THE WELL CASIN	YES	X NO		
IF YES, DESCRIBE ODOR SOLVENT					
U SULFIDE/RC	OTTEN EGGS				
OTHER			O a toka		
WERE PICTURES TAKEN? YES		PHOTO IDs:	Thoms rates		
□ NO					
	1.447		OVERTION (OUTS)		
ADDITIONAL NOTES OR COMMENTS:	0	^	ONDITION (CHECK ONE). D CONDITION		
pose to open well on 8/3			ERATE CONDITION		
Wen id plate not altag	hed	☐ POO	R CONDITION		
wen in plate not altae to well lid,					
Wenfound under ~6" or road and a geotextile	of gravel				
road und a apple Atla	+ Annowana	reacement.			
Tour and a gentime	-11 miles " ge	~77C7711 W# 11 #			



MONITORI	NG WELL CHECK	LIST FOR LUC IN	SPECTION	
DATE (MMIDDIYY) OS 3017	TIME (HH:MM)		WEATHER/TEMPERATURE:	
INSPECTOR. A.Paolucei and M. Zel	erevich	COMPANY: Balkelle		
Site 304	Description Drawsmal	Area		
WELL ID:	NORTHING: 6 4	19.42	EASTING: 371750.40	41/11 (BE)
<u></u> -	GROUNDWATER SOIL VAPOR			
MONITORING WELL LOCATED? IS THE WELL CLEARLY LABELED? IS THE MONUMENT IN GOOD CONDITION?		X YES □ YES X YES		
TYPE OF WELL CASING: STICK-UP OTHER	FLUSH-MOUNT	size & NUMBER OF BO	LTS ON FLUSH-MOUNT LID	
CASING DIAMETER 2" 4" 6" IS THE CASING IN GOOD CONDITION? IS THERE A CAP ON THE MONITORING WEI TYPE OF CAP: PVC SLIP CAP J-PLUG EXPANSION PRODUCTION W OTHER	LL?	YES YES	□ NO □ NO	
IS THERE ANY EVIDENCE OF TAMPERING \ ARE THERE ANY ODORS? IF YES, DESCRIBE ODOR: SOLVENT SULFIDE/RO PETROLEUN	TTEN EGGS	G OR CAP? YES	M NO	
☐ OTHER WERE PICTURES TAKEN? 【 YES ☐ NO		PHOTO IDs:	Priotos taken	
ADDITIONAL NOTES OR COMMENTS	φ.	∭ GOO! ☐ MODE	ONDITION (CHECK ONE): D CONDITION ERATE CONDITION R CONDITION	



MONITORING WELL CHECKLIST FOR LUC INSPECTION					
DATE (MM DD YY). 68/30/17	TIME (HH:MM)	- 7 - 7	WEATHER/TEMPERATURE		
INSPECTOR		COMPANY [.]	1		
A.Paolucci and M.Zel	· · · · · · · · · · · · · · · · · · ·	Buffelle			
Site 304	DESCRIPTION:	. .			
>116 SUY	Industrial i	4rea			
WELL ID: MW-2_	NORTHING:	11 04	EASTING .	(BG)	
10100-2	6 9	105,94	371803.60	79/1/17	
INSPECTION CHECKLIST.					
,	GROUNDWATER SOIL VAPOR				
MONITORING WELL LOCATED?		∑ YES	☐ NO		
IS THE WELL CLEARLY LABELED?		YES	X NO		
IS THE MONUMENT IN GOOD CONDITION?		X YES	□ NO		
TYPE OF WELL CASING: STICK-UP OTHER	FLUSH-MOUNT	SIZE & NUMBER OF BC			
CASING DIAMETER 💆 2" 🗌 4" 🔲 6"	□8" □ OTHER	•			
IS THE CASING IN GOOD CONDITION?		YES YES	□ NO		
IS THERE A CAP ON THE MONITORING WE	LL?	X YES	□ NO □ NO		
TYPE OF CAP: ☐ PVC SLIP CAP					
☐ PRODUCTION W	//TUBING				
☐ OTHER					
IS THERE ANY EVIDENCE OF TAMPERING	WITH THE WELL CASIN	IG OR CAP? YES	💢 NO		
ARE THERE ANY ODORS?		☐ YES	X NO		
IF YES, DESCRIBE ODOR: SOLVENT	TTEN EGGG				
☐ SULFIDE/RC					
OTHER			•		
WERE PICTURES TAKEN? 🛛 YES		PHOTO IDs	Photos tater		
□ NO			(2) 1175		
ADDITIONAL NOTES OR COMMENTS		GENERAL CO	ONDITION (CHECK ONE):		
		, •	D CONDITION		
Lock on well cap.		-	ERATE CONDITION		
,		[] POOI	RCONDITION		



MONITORING WELL CHECKLIST FOR LUC INSPECTION						
DATE (MM DD YY).	TIME (HH:MM): 1329	9 (80)	SYTWEATHER/TEMPERATURE			
inspector: Afaolicei and M. Zela	eneutch	COMPANY: Baffelle				
site: Tank So	DESCRIPTION:					
WELL ID:	NORTHING: 64	1406.94	270945.00	80/11		
INSPECTION CHECKLIST: TYPE OF MONITORING WELL: SOIL VAPOR						
MONITORING WELL LOCATED? IS THE WELL CLEARLY LABELED? IS THE MONUMENT IN GOOD CONDITION? TYPE OF WELL CASING: X STICK-UP OTHER		X YES	☐ NO M NO ☐ NO DLTS ON FLUSH-MOUNT LID:			
CASING DIAMETER 2" 4" 6" IS THE CASING IN GOOD CONDITION? IS THERE A CAP ON THE MONITORING WE TYPE OF CAP: PVC SLIP CAP J-PLUG EXPANSION PRODUCTION W OTHER	LL? //TUBING	YES YES	□ NO □ NO			
IS THERE ANY EVIDENCE OF TAMPERING WITH THE WELL CASING OR CAP? YES NO ARE THERE ANY ODORS? YES NO IF YES, DESCRIBE ODOR: SOLVENT SULFIDE/ROTTEN EGGS PETROLEUM OTHER						
WERE PICTURES TAKEN?		PHOTO IDs:	Ynotostakun @ 1329			
ADDITIONAL NOTES OR COMMENTS:		Ø GOO ☐ MOD	ONDITION (CHECK ONE): D CONDITION ERATE CONDITION R CONDITION			



MONITORING WELL CHECKLIST FOR LUC INSPECTION					
DATE (MMIDDIYY): Ø\$1301 (7	TIME (HH·MM)·		WEATHER/TEMPERATURE:		
INSPECTOR:		COMPANY:	- /		
A. Paolice I and M. Zelenevich		Battelle			
site Tank 50	DESCRIPTION:	_			
WELL ID:	NORTHING: 6 4429,72		EASTING:	(10)	
MW-2	0 0	167,12	370850.70	40/1.1	
INSPECTION CHECKLIST: TYPE OF MONITORING WELL: GROUNDWATER					
☐ SOIL VAPOR					
MONITORING WELL LOCATED?		YES	□ NO ∑ NO		
IS THE WELL CLEARLY LABELED? IS THE MONUMENT IN GOOD CONDITION?		∑ YES	NO □ NO		
TYPE OF WELL CASING: X STICK-UP TELUSH-MOUNT SIZE & NUMBER OF BOLTS ON FLUSH-MOUNT LID					
OTHER					
CASING DIAMETER 💢 2" 🗌 4" 🔲 6"	8" OTHER_				
IS THE CASING IN GOOD CONDITION?		YES	□ NO□ NO		
IS THERE A CAP ON THE MONITORING WELL? TYPE OF CAP: PVC SLIP CAP		IA 1E3			
J-PLUG					
EXPANSION PRODUCTION W/TUBING					
☐ OTHER					
IS THERE ANY EVIDENCE OF TAMPERING WITH THE WELL CASING OR CAP?					
ARE THERE ANY ODORS?		YES	™ NO		
IF YES, DESCRIBE ODOR: ☐ SOLVENT ☐ SULFIDE/ROTTEN EGGS					
PETROLEUM					
U OTHER WERE PICTURES TAKEN? ★ YES	PHOTO IDs	Photos taken			
□ NO			@ 1403		
ADDITIONAL NOTES OR COMMENTS:			ONDITION (CHECK ONE):		
well is labeled on well cof.		☐ MODERATE CONDITION			
i ock on well Ital was			R CONDITION		
Lock on well lid was poor condition poor condition					
Tapinot to hispect footh,					

2017 Land Use Control Inspection Technical Memorandum
Fleet Logistics Center Puget Sound, Manchester Fuel Depot – Manchester, Washington
Naval Facilities Engineering Command Northwest

Appendix C Revision No. 0 Date: 10/09/17

APPENDIX C Field Notes 2017 Land Use Control Inspection Technical Memorandum Fleet Logistics Center Puget Sound, Manchester Fuel Depot – Manchester, Washington Naval Facilities Engineering Command Northwest

Appendix C Revision No. 0 Date: 10/09/17

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Project / Client

08/29/17 Ste 303 Tank 22 0843



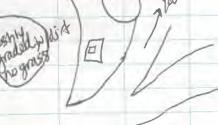
- -> new Sign has been metalited at "enfrance" to tank 20.
- -> No endence of digging or disturbed soil.
- No evidence of GW well metallation etc.

- Controction laydown area NN of Tank 22

+ 0856 Started inspection of MWs

808/29/17 Site 303 Tank 24 da 17 808/2019 will should be seen to laydown

berny done



Location

Project / Client

→ jacks like work was recently completed at tonk.

→ Stockpile of Soil (looks to be excounted Soil)
on incorder of bydown over.

→ half of pile covered wy black yoly sheet.

-> Ovwilt, leak to be verkilleting

-> old "excavation restriction" significated adjacent to stackfile of soil; near south orke rd.

→ small stockpite of Soil in corner of landown yard covered w/ black poly shout (NW corner).

>1755 gal droms in layedown yard only I drom labeled, along Spoorder of paydown wea.

soll stock ened laydown Hand 55-gol drims

>new sign installed al entrare" to Tanket greeting

→ No evidence of diagring.

-> NO wildonie of EW well moball.

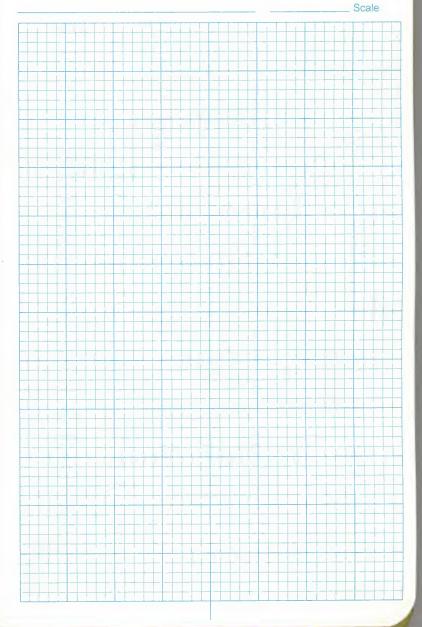
-> 1028 started to repectivellis.

Project / Client Site 303 Tank 27 -> undisturbed site; 510 no evidence of diaging/soil disturbance. +no evidence of Giv well install or 6w use >1517 Started to inspect well. Site 303 tank 28 -> No wells @ Tank 28, + NO evidence of distribunces or Gulven metall or GW USE newer of parthod (AMP) 082417

08/29/17

Project / Client Site 303 Tank 30 - undistribed site 0820 DO -> 10 evidence of 0 sol distroctance excavation. -+ no End well metall or GW USUGE. NO Signs at sheerman newlorodd signs. oxes started to inspect wells (13). 0856 08/30/17 SHE 303 Tank 29 1055 Came back to Tank 29 to attemp to open well MW-4. Africe to open Mw 4 and complete inspection checklist. 08/30/17 West of Tank 29 found ful pipmy for ow-Z and completed mispection checkerst. 08/30 7 Site 304 Industrial Area 1136 started inspection + made notes on map.

Location	Date
Project / Client	



Mank 30: 13 wells

Tank 29: 12 wells (MW-4)

Nank 28: NO wells

VTank 27: MW-1

Fank 26: 13 wells

tank 25: MW-2+13

Mank 24: 13 wells

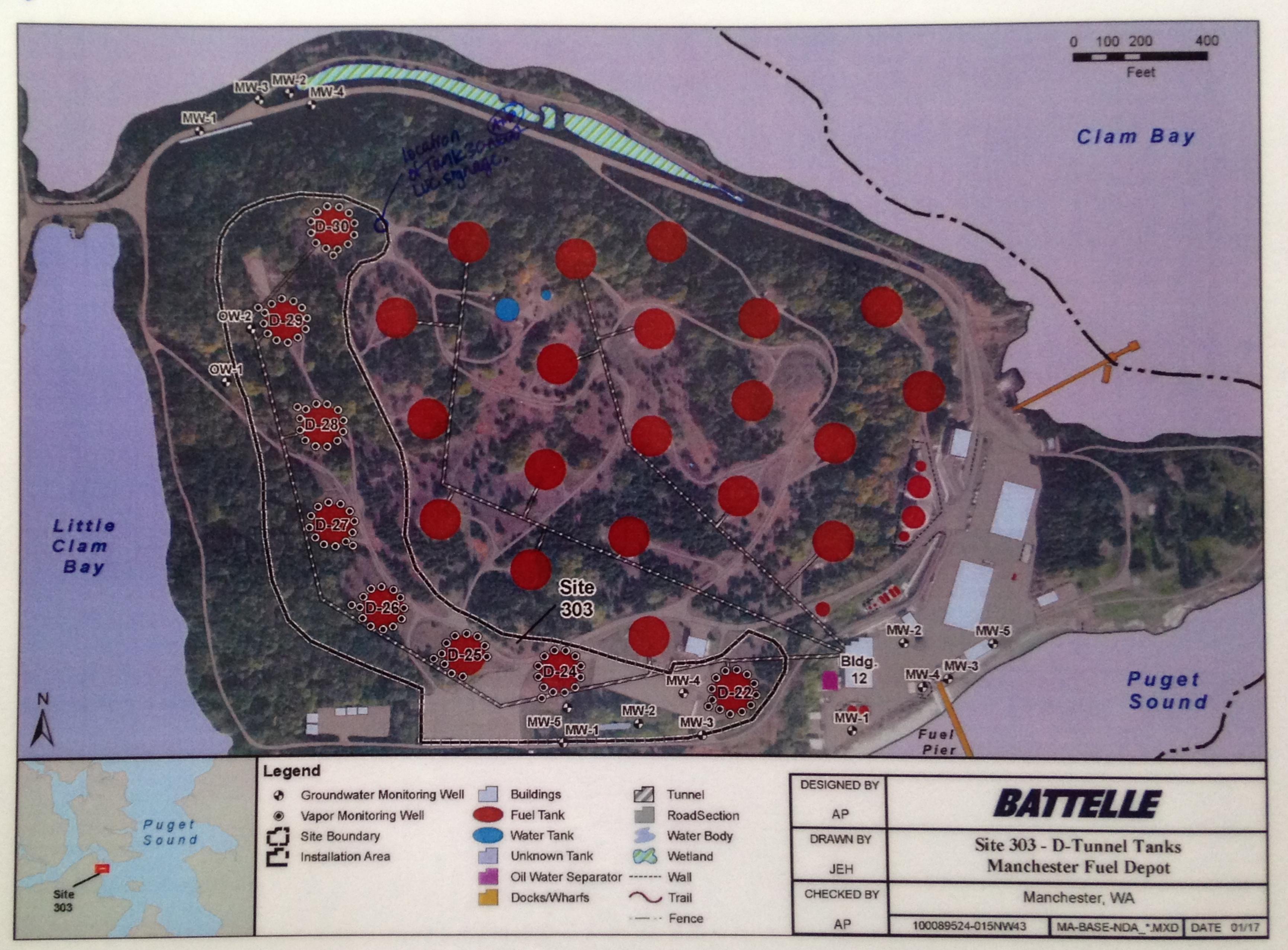
tank 22:13 wells

North Tank 30:

MW-3

VOW-2 - ONLY PYC

Site 304: VMW-1 VMW-2



Started inspection of site 304 @ 1136 - Completed Inspection @ 1215

*Inspected MW-1 @ 1142

2" PVC w/ JPWg Cap No odor Good Condition only 1/2 belts 3/4" Photos taken @ W44

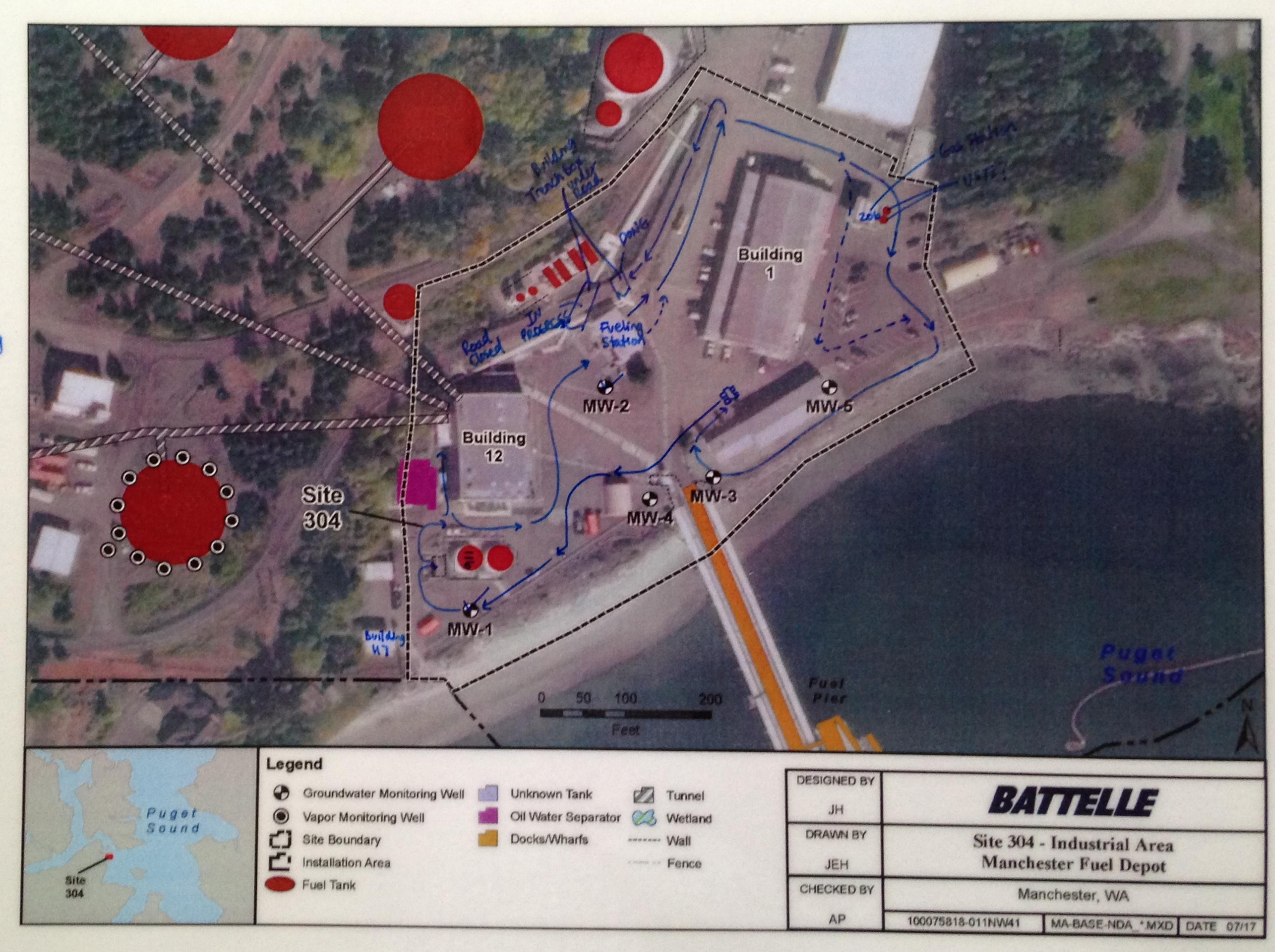
*Inspected MW-2 @ 1153
2*PVC w/JPWgCap+Lock
No odor
Good Condition
2 Botts 3/4"
Photos taken @ 1155

No evidence of digging/ soil disturbance.

Coil distarbance.

* No evidence of GW well metall or GW usage.

NO "LUC" signage warning against exposure to ontaminated soil.



Started inspection of Tank 50 @ 1326 finished inspection @ 1420

Inspected MW-1 @ 1829
No Label 10 Plate
Stick up well
2"PVC w/JPlug cap
Good Condition
No odor
Photos taken @ 1829
Inspected MW-2@1403

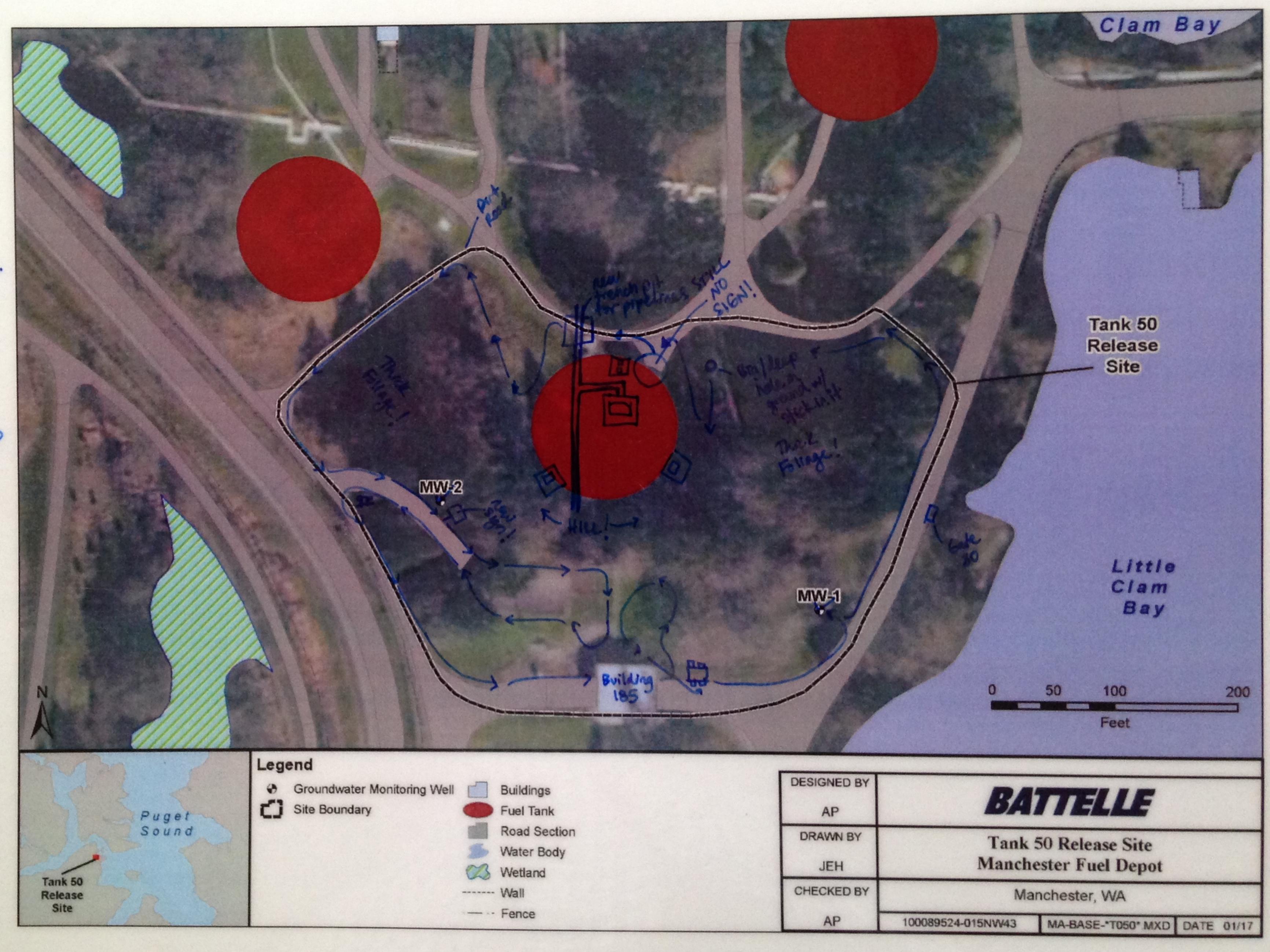
Photos taken @ 1329
Inspected MW-2.@ 1403
No label on outside.
Labeled on casing cap.
No odor
2" PVC w/J" Plug Cap
Stick-up well
Photos taken @ 1403

Good, Condition
* No longer lock on well lid.
(Removed by battelle)

No evidence of digging or soll distribunce.

No evidence of 6 w well install or 6 w usage.

1425 Went back to Tank 30
to take picture of
ment sign..., its not
right at the tank, but
before the tank.



Started inspection of Site 302 & 1440 Abished inspections @ 1545

- * No signage along South side warning of soil contamination, only "Restricted Area" signage"
 No William Sitts
- * Large pless of old disposed of solin control partion of fenced area.
- * Gate on North side of site unlocked topen, no signage.



2017 Land Use Control Inspection Technical Memorandum
Fleet Logistics Center Puget Sound, Manchester Fuel Depot – Manchester, Washington
Naval Facilities Engineering Command Northwest

Appendix D Revision No. 0 Date: 10/09/17

APPENDIX D Photographic Log 2017 Land Use Control Inspection Technical Memorandum
Fleet Logistics Center Puget Sound, Manchester Fuel Depot – Manchester, Washington
Naval Facilities Engineering Command Northwest

Appendix D Revision No. 0 Date: 10/09/17

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File Name: 303-Tank22-DSCF1621

Date Taken: 08/29/17

Photo #1 - Description: Site 303, Tank 22, view NW across site



File Name: 303-Tank22-DSCF1623

Date Taken: 08/29/17

Photo #2 - Description: Site 303, Tank 22, new LUC excavation

restriction signage



File Name: 303-Tank22-DSCF1625

Date Taken: 08/29/17 Photo #3 - Description: Site 303, Tank 22, construction laydown

area WNW of tank



File Name:

303-Tank22-MW1-DSCF1631

Date Taken: 08/29/17 Photo #4 - Description: Site 303, Tank 22, MW-1, tubing from

vapor monitoring system is visible



File Name: 303-Tank22-MW2-DSCF1633

Date Taken: 08/29/17 Photo #5 - Description: Site 303, Tank 22, MW-2, well buried under grass



File Name: Date Taken: 303-Tank22-MW3-DSCF1636

08/29/17

Photo #6 - Description: Site 303, Tank 22, MW-3, water in monument



File Name: 303-Tank22-MW4-DSCF1638

Date Taken: 08/29/17

Photo #7 - Description: Site 303, Tank 22, MW-4



File Name: Date Taken: 303-Tank22-MW5-DSCF1640

08/29/17

Photo #8 - Description: Site 303, Tank 22, MW-5, monument filled with water



File Name: 303-Tank22-MW6-DSCF1642

Date Taken: 08/29/17 Photo #9 - Description: Site 303, Tank 22, MW-6, monument filled with water



File Name: Date Taken: 303-Tank22-MW7-DSCF1644

08/29/17

Photo #10 - Description: Site 303, Tank 22, MW-7, cap removed from well casing



File Name: 303-Tank22-MW8-DSCF1646

Date Taken: 08/29/17

Photo #11 - Description: Site 303, Tank 22, MW-8, debris inside monument



File Name: Date Taken:

303-Tank22-MW9-DSCF1648

: 08/29/17

Photo #12 - Description: Site 303, Tank 22, MW-9



File Name: 303-Tank22-MW10-DSCF1650

Date Taken: 08/29/17

Photo #13 - Description: Site 303, Tank 22, MW-10, located along access road



File Name: Date Taken: 303-Tank22-MW11-DSCF1627

08/29/17

Photo #14 - Description: Site 303, Tank 22, MW-11, located along roadside, water in annular spacing



File Name: 303-Tank22-MW12-DSCF1628

Date Taken: 08/29/17

Photo #15 - Description: Site 303, Tank 22, MW-12



File Name: Date Taken: 303-Tank22-MW13-DSCF1652

08/29/17

Photo #16 - Description: Site 303, Tank 22, MW-13, water in monument up to top of casing, adjacent to Soil Sentry System



File Name: 303-Tank24-DSCF1655

Date Taken: 08/29/17

Photo #17 - Description: Site 303, Tank 24, view W across site



File Name: 303-Tank24-DSCF1657

Date Taken: 08/29/17

Photo #18 - Description: Site 303, Tank 24, new LUC excavation

restriction signage



File Name: 303-Tank24-DSCF1662

Date Taken: 08/29/17

Photo #19 - Description: Site 303, construction laydown area SW

of Tank 24, view W across area



File Name: 303-Tank24-DSCF1668

Date Taken: 08/29/17

Photo #20 - Description: Site 303, 55-gal drums along S boundary

of construction laydown area SW of Tank 24



File Name: WIN_20161212_134339

Date Taken: 08/29/17

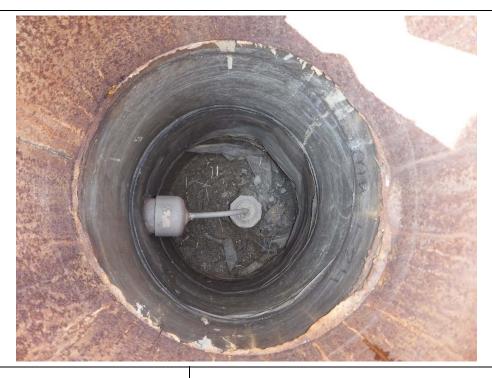
Photo #21 - Description: Site 303, soil stockpile with tarp in NW corner of construction laydown area



File Name: 303-Tank24-DSCF1661

Date Taken: 08/29/17

Photo #22 - Description: Site 303, excavation stockpile and older excavation restriction signage along E boundary of construction laydown area



File Name: 303-Tank24-MW1-DSCF1680

Date Taken: 08/29/17

Photo #23 - Description: Site 303, Tank 24, MW-1



File Name: 303-Tank24-MW2-DSCF1682 **Date Taken:** 08/29/17

Photo #24 - Description: Site 303, Tank 24, MW-2, buried under ~3 inches of dirt/soil



File Name: 303-Tank24-MW3-DSCF1685

Date Taken: 08/29/17

Photo #25 - Description: Site 303, Tank 24, MW-3, ID plate not affixed to well lid, buried under ~1 inch of dirt/soil



File Name: Date Taken: 303-Tank24-MW4-DSCF1689

08/29/17

Photo #26 - Description: Site 303, Tank 24, MW-4



File Name: 303-Tank24-MW5-DSCF1691

Date Taken: 08/29/17

Photo #27 - Description: Site 303, Tank 24, MW-5, interior lining of monument deteriorating



File Name: Date Taken:

303-Tank24-MW6-DSCF1693

08/29/17

Photo #28 - Description: Site 303, Tank 24, MW-6, located in middle of road, well ~3 feet deep in monument

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File Name: 303-Tank24-MW7-DSCF1695

Date Taken: 08/29/17

Photo #29 - Description: Site 303, Tank 24, MW-7, well fully submerged under water, some sheen in water



File Name: Date Taken: 303-Tank24-MW8-DSCF1670

08/29/17

Photo #30 - Description: Site 303, Tank 24, MW-8, water in

monument



File Name: 303-Tank24-MW9-DSCF1672

Date Taken: 08/29/17

Photo #31 - Description: Site 303, Tank 24, MW-9



File Name: 303-Tank24-MW10-DSCF1674

Date Taken: 08/29/17

Photo #32 - Description: Site 303, Tank 24, MW-10



File Name: 303-Tank24-MW11-DSCF1676

Date Taken: 08/29/17

Photo #33 - Description: Site 303, Tank 24, MW-11



File Name: Date Taken: 303-Tank24-MW12-DSCF1678

08/29/17

Photo #34 - Description: Site 303, Tank 24, MW-12



File Name: 303-Tank24-MW13-DSCF1687

Date Taken: 08/29/17

Photo #35 - Description: Site 303, Tank 24, MW-13, interior lining laying within monument



File Name: 303-Tank25-DSCF1740

Date Taken: 08/29/17

Photo #36 - Description: Site 303, Tank 25, view SW across site

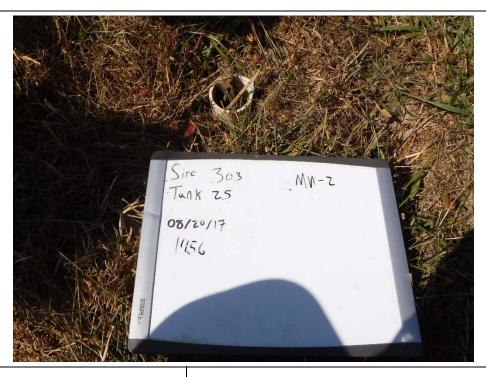


File Name: 303-Tank25-DSCF1738

Date Taken: 08/29/17

Photo #37 - Description: Site 303, Tank 25, new LUC excavation

restriction signage



File Name: 303-Tank25-MW2-DSCF1732 **Date Taken:** 08/29/17

Photo #38 - Description: Site 303, Tank 25, MW-2, only 2-inch

PVC piping exposed at ground surface



File Name: 303-Tank25-MW13-DSCF1735

Date Taken: 08/29/17

Photo #39 - Description: Site 303, Tank 25, MW-13, located in tall grass around tank



File Name: 303-Tank26-DSCF1698 **Date Taken:** 08/29/17

Photo #40 - Description: Site 303, Tank 26, view SW across site



File Name: 303-Tank26-DSCF1696

Date Taken: 08/29/17 Photo #41 - Description: Site 303, Tank 26, new LUC excavation

restriction signage



File Name: 303-Tank26-DSCF1703

Date Taken: 08/29/17 Photo #42 - Description: Site 303, southwest of Tank 26, rigging equipment for fuel line maintenance/inspections

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File Name: 303-Tank26-MW1-DSCF1721

Date Taken: 08/29/17

Photo #43 - Description: Site 303, Tank 26, MW-1



File Name: Date Taken:

303-Tank26-MW2-DSCF1719

08/29/17

Photo #44 - Description: Site 303, Tank 26, MW-2, well ~2 feet

deep in monument



File Name: 303-Tank26-MW3-DSCF1717

Date Taken: 08/29/17

Photo #45 - Description: Site 303, Tank 26, MW-3, water in monument



File Name: Date Taken:

303-Tank26-MW4-DSCF1715

08/29/17

Photo #46 - Description: Site 303, Tank 26, MW-4, well covered by brush



File Name: 303-Tank26-MW5-DSCF1713

Date Taken: 08/29/17

Photo #47 - Description: Site 303, Tank 26, MW-5, placed cap in well casing



File Name: Date Taken: 303-Tank26-MW6-DSCF1711

08/29/17

Photo #48 - Description: Site 303, Tank 26, MW-6, well located in tall grass surrounding tank



File Name: 303-Tank26-MW7-DSCF1709

Date Taken: 08/29/17

Photo #49 - Description: Site 303, Tank 26, MW-7, well located in tall grass surrounding tank



File Name: Date Taken:

303-Tank26-MW8-DSCF1707

08/29/17

Photo #50 - Description: Site 303, Tank 26, MW-8, well ID not affixed to well lid, well in middle of road with overgrown vegetation



File Name: 303-Tank26-MW9-DSCF1705

Date Taken: 08/29/17 Photo #51 - Description: Site 303, Tank 26, MW-9, water in monument



File Name: Date Taken: 303-Tank26-MW10-DSCF1727

08/29/17

Photo #52 - Description: Site 303, Tank 26, MW-10, water in

monument, slightly above casing



File Name: 303-Tank26-MW11-DSCF1725

Date Taken: 08/29/17 Photo #53 - Description: Site 303, Tank 26, MW-11, water in monument to top of casing



File Name: Date Taken: 303-Tank26-MW12-DSCF1723

08/29/17

Photo #54 - Description: Site 303, Tank 26, MW-12, spray foam inside well monument



File Name: 303-Tank26-MW13-DSCF1730

Date Taken: 08/29/17

Photo #55 - Description: Site 303, Tank 26, MW-13, covered by recently cut trees and overgrowth



File Name: 303-Tank27-DSCF1743

Date Taken: 08/29/17

Photo #56 - Description: Site 303, Tank 27, view W across site



File Name: 303-Tank27-DSCF1742

Date Taken: 08/29/17 Photo #57 - Description: Site 303, Tank 27, new LUC excavation

restriction signage



303-Tank27-MW1-DSCF1746 File Name:

Date Taken: 08/29/17 Photo #58 - Description: Site 303, Tank 27, MW-1, flex tube

missing, well not connected to soil sentry system



File Name: 303-Tank28-DSCF1749

Date Taken: 08/29/17

Photo #59 - Description: Site 303, Tank 28, view across site



File Name: 303-Tank28-DSCF1747

Date Taken: 08/29/17

Photo #60 - Description: Site 303, Tank 28, new LUC excavation

restriction signage



File Name: 303-Tank29-DSCF1753

Date Taken: 08/29/17

Photo #61 - Description: Site 303, Tank 29, view N across site



File Name: 303-Tank29-DSCF1758

Date Taken: 08/29/17

Photo #62 - Description: Site 303, North of Tank 29, entrance to

laydown area



File Name: 303-Tank29-DSCF1762

Date Taken: 08/29/17 Photo #63 - Description: Site 303, North of Tank 29, rock stockpile in laydown area



File Name: 303-Tank29-DSCF1763

Date Taken: 08/29/17 Photo #64 - Description: Site 303, North of Tank 29, mobile

extraction/treatment system in laydown area



File Name: 303-Tank29-DSCF1765

Date Taken: 08/29/17

Photo #65 - Description: Site 303, North of Tank 29, bulldozer in laydown area



File Name: 303-Tank29-DSCF1772

Date Taken: 08/29/17

Photo #66 - Description: Site 303, North of Tank 29, old soil stockpile on tarp surrounded by absorbent wattles in construction area



File Name: 303-Tank29-DSCF1751

Date Taken: 08/29/17

Photo #67 - Description: Site 303, Tank 29, LUC excavation

restriction signage



File Name: Date Taken:

303-Tank29-MW1-DSCF1788

08/29/17

Photo #68 - Description: Site 303, Tank 29, MW-1, well fully

submerged under water



File Name: 303-Tank29-MW2-DSCF1784

Date Taken: 08/29/17

Photo #69 - Description: Site 303, Tank 29, MW-2, well fully submerged under water



File Name: Date Taken: 303-Tank29-MW3-DSCF1782

08/29/17

Photo #70 - Description: Site 303, Tank 29, MW-3, well fully submerged under water



File Name: 303-Tank29-MW4-DSCF1779

Date Taken: 08/29/17

Photo #71 - Description: Site 303, Tank 29, MW-4, under 6 inches of gravel access road and geotextile



File Name: Date Taken: 303-Tank29-MW4-DSCF1834

08/30/17

Photo #72 - Description: Site 303, Tank 29, MW-4, well ID not

affixed to well lid



File Name: 303-Tank29-MW5-DSCF1778

Date Taken: 08/29/17

Photo #73 - Description: Site 303, Tank 29, MW-5, water in monument



File Name: Date Taken: 303-Tank29-MW6-DSCF1776

08/29/17

Photo #74 - Description: Site 303, Tank 29, MW-6, well fully

submerged under water



File Name: 303-Tank29-MW7-DSCF1774

Date Taken: 08/29/17

Photo #75 - Description: Site 303, Tank 29, MW-7, water in monument



File Name: Date Taken: 303-Tank29-MW8-DSCF1798

08/29/17

Photo #76 - Description: Site 303, Tank 29, MW-8, water in

monument to top of casing



File Name: 303-Tank29-MW9-DSCF1796

Date Taken: 08/29/17

Photo #77 - Description: Site 303, Tank 29, MW-9, water in monument with sheen



File Name: Date Taken:

303-Tank29-MW10-DSCF1794

08/29/17

Photo #78 - Description: Site 303, Tank 29, MW-10, well fully submerged under water



File Name: 303-Tank29-MW11-DSCF1792

Date Taken: 08/29/17

Photo #79 - Description: Site 303, Tank 29, MW-11, water in monument



File Name: Date Taken: 303-Tank29-MW12-DSCF1790

08/29/17

Photo #80 - Description: Site 303, Tank 29, MW-12, water in

monument



File Name: 303-Tank29-MW13-DSCF1786

Date Taken: 08/29/17

Photo #81 - Description: Site 303, Tank 29, MW-13, located in brush, water in monument



File Name: Date Taken:

303-Tank30-DSCF1827

08/30/17

Photo #82 - Description: Site 303, Tank 30, view across site



File Name: 303-Tank30-Sign-DSCF1916

Date Taken: 08/30/17

Photo #83 - Description: Site 303, Tank 30, LUC excavation restriction signage at access road to tank



File Name: Date Taken:

303-Tank30-MW1-DSCF1808

aken: 08/30/17

Photo #84 - Description: Site 303, Tank 30, MW-1, water in monument to top of casing, ID plate not affixed to well lid



File Name: 303-Tank30-MW2-DSCF1806

Date Taken: 08/30/17

Photo #85 - Description: Site 303, Tank 30, MW-2, located in tall grass surrounding tank



File Name: Date Taken: 303-Tank30-MW3-DSCF1804

08/30/17

Photo #86 - Description: Site 303, Tank 30, MW-3, well fully submerged under water, located in tall grass surrounding tank, ID plate not affixed to well lid



File Name: 303-Tank30-MW4-DSCF1802

Date Taken: 08/30/17 **Photo #87 - Description:** Site 303, Tank 30, MW-4, water in monument to top of casing, located in tall grass surrounding tank, ID plate not affixed to well lid



File Name: Date Taken: 303-Tank30-MW5-DSCF1800

08/30/17

Photo #88 - Description: Site 303, Tank 30, MW-5, well fully

submerged under water, sheen on water



File Name: 303-Tank30-MW6-DSCF1824

Date Taken: 08/30/17 Photo #89 - Description: Site 303, Tank 30, MW-6, well fully submerged under water



File Name: Date Taken: 303-Tank30-MW7-DSCF1822

08/30/17

Photo #90 - Description: Site 303, Tank 30, MW-7, well fully

submerged under water



File Name: 303-Tank30-MW8-DSCF1820

Date Taken: 08/30/17

Photo #91 - Description: Site 303, Tank 30, MW-8



File Name: Date Taken:

303-Tank30-MW9-DSCF1818

08/30/17

Photo #92 - Description: Site 303, Tank 30, MW-9, water in

monument



File Name: 303-Tank30-MW10-DSCF1816

Date Taken: 08/30/17

Photo #93 - Description: Site 303, Tank 30, MW-10, water in monument



File Name: Date Taken:

303-Tank30-MW11-DSCF1814

08/30/17

Photo #94 - Description: Site 303, Tank 30, MW-11, water in monument

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File Name: Date Taken: 303-Tank30-MW12-DSCF1810

aken: 08/30/17

Photo #95 - Description: Site 303, Tank 30, MW-12, water in monument



File Name:

303-Tank30-MW13-DSCF1812

Date Taken: 08/30/17

Photo #96 - Description: Site 303, Tank 30, MW-13, located in tall grass surrounding tank



File Name: 303-WestTank29-OW2-

DSCF1835

Date Taken: 08/30/17

Photo #97 - Description: Site 303, West of Tank 29, OW-2, only 2-inch PVC piping exposed at ground surface

inch PVC piping exposed at ground surface



File Name: 303-OilWaterSep8-303-

DSCF1879

Date Taken: 08/30/17

Photo #98 - Description: West of Site 303, OWS 8/8A, new effluent

plumbing from OWS system



File Name: 303-OilWaterSep8-DSCF1878 **Date Taken:** 08/30/17

Photo #99 - Description: West of Site 303, OWS 8/8A, view from top of OWS tanks



File Name:

304-IndustrialArea-DSCF1841

Date Taken: 08/30/17

Photo #100 - Description: Site 304, Industrial Area, view N towards Building 12



File Name: 304-IndustrialArea-DSCF1853 Date Taken: 08/30/17

Photo #101 - Description: Site 304, Industrial Area, view S from W side of Building 12



File Name: Date Taken: 304-IndustrialArea-DSCF1856

08/30/17

Photo #102 - Description: Site 304, Industrial Area, view of SW

corner of site



File Name: 304-IndustrialArea-DSCF1857

Date Taken: 08/30/17 Photo #103 - Description: Site 304, Industrial Area, view NE towards fueling station



File Name:

304-IndustrialArea-DSCF1864

Date Taken: 08/30/17 Photo #104 - Description: Site 304, Industrial Area, view SW

towards fueling station, general entry way to site



File Name: 304-IndustrialArea-DSCF1867

Date Taken: 08/30/17

Photo #105 - Description: Site 304, Industrial Area, construction of a trench box for fuel lines



File Name:

304-IndustrialArea-DSCF1872

Date Taken: 08/30/17

Photo #106 - Description: Site 304, Industrial Area, Building 1



File Name: Date Taken: 304-IndustrialArea-DSCF1873

08/30/17

Photo #107 - Description: Site 304, Industrial Area, Building 206 gas station NE of Building 1



File Name:

304-IndustrialArea-DSCF1877

Date Taken: 08/30/17

Photo #108 - Description: Site 304, Industrial Area, E corner of site



File Name: 304-IndustrialArea-MW1-

DSCF1840

Date Taken: 08/30/17

Photo #109 - Description: Site 304, Industrial Area, MW-1, lock not

on well cap

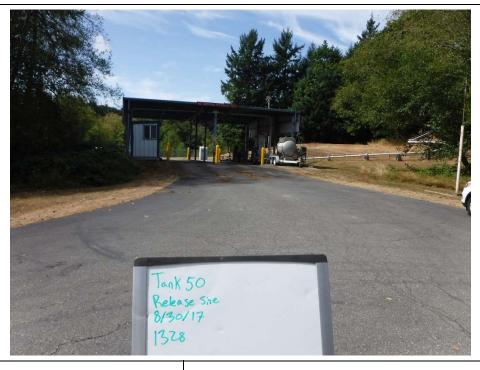


File Name: 304-IndustrialArea-MW2-

DSCF1858

Date Taken: 08/30/17

Photo #110 - Description: Site 304, Industrial Area, MW-2



File Name: Date Taken:

Tank50-DSCF1880

08/30/17

Photo #111 - Description: Tank 50 Release Site, view W towards

Building 185 fueling station



File Name:

Tank50-DSCF1882

Date Taken: 08/30/17

Photo #112 - Description: Tank 50 Release Site, SE corner of site



File Name: Date Taken: Tank50-DSCF1890

08/30/17

Photo #113 - Description: Tank 50 Release Site, view W across

site



File Name:

Tank50-DSCF1893

Date Taken: 08/30/17

Photo #114 - Description: Tank 50 Release Site, view across area

above tank



File Name: Tar

Tank50-DSCF1896

Date Taken: 08/30/17

Photo #115 - Description: Tank 50 Release Site, access vault to tank



File Name:

Tank50-DSCF1898

Date Taken: 08/30/17

Photo #116 - Description: Tank 50 Release Site, trench box for

fuel lines under access road



File Name: Date Taken:

Tank50-DSCF1902

08/30/17

Photo #117 - Description: Tank 50 Release Site, view along W boundary of site



File Name:

Tank50-DSCF1910

Date Taken: 08/30/17

Photo #118 - Description: Tank 50 Release Site, view N towards

top of tank



File Name: Tank50-DSCF1915

Date Taken: 08/30/17

Photo #119 - Description: Tank 50 Release Site, 55-gallon non-hazardous waste drum for spills at Building 185 fueling station



File Name: Tank50-MW1-DSCF1883

Date Taken: 08/30/17

Photo #120 - Description: Tank 50 Release Site, MW-1 (1 of 2)



File Name:

Tank50-MW1-DSCF1887

Date Taken: 08/30/17

Photo #121 - Description: Tank 50 Release Site, MW-1 (2 of 2)



File Name:

Tank50-MW2-DSCF1906

Date Taken: 08/30/17

Photo #122 - Description: Tank 50 Release Site, MW-2



File Name: Tank50-Sign-DSCF1905

Date Taken: 08/30/17

Photo #123 - Description: Tank 50 Release Site, new LUC excavation restriction signage adjacent to MW-2



File Name: 302-PCBSite-DSCF1917

Date Taken: 08/30/17

Photo #124 - Description: Site 302, PCB Site, primary entrance to

site with no LUC signage



File Name: 302-PCBSite-DSCF1920

Date Taken: 08/30/17

Photo #125 - Description: Site 302, PCB Site, central portion of site, soil/debris stockpiles overgrown with vegetation (1 of 2)



File Name: 302-PCBSite-DSCF1922 **Date Taken:** 08/30/17

Photo #126 - Description: Site 302, PCB Site, central portion of site, soil/debris stockpiles overgrown with vegetation (2 of 2)



File Name: 302-PCBSite-DSCF1926

Date Taken: 08/30/17 **Photo #127 - Description:** Tank 50 Release Site, gate on N side of site opened, unlocked, and with no LUC signage