DEPARTMENT OF PUBLIC WORKS

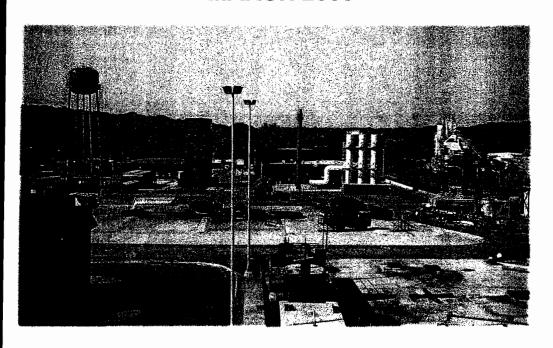
Nassau County

Long Island, New York

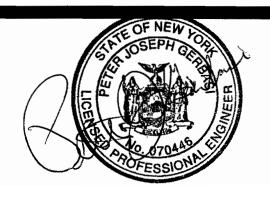


ENGINEER'S CONSTRUCTION CERTIFICATION REPORT

MARCH 2005



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Fireman's Training Center Groundwater Remediation Facility Engineer's Certification Report May 2004

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SECTION 1

INTRODUCTION

1.1 Purpose

The following Engineer's Construction Certification Report (ECCR) has been prepared for the Fireman's Training Center Site (FTC), Bethpage, New York in accordance with the New York State Department of Environmental Conservation (NYSDEC) requirements. The ECCR provides a summary of the site's remedial construction work, including lists of construction contractors, variances, change orders and a summary of the remediation facility's testing and startup.

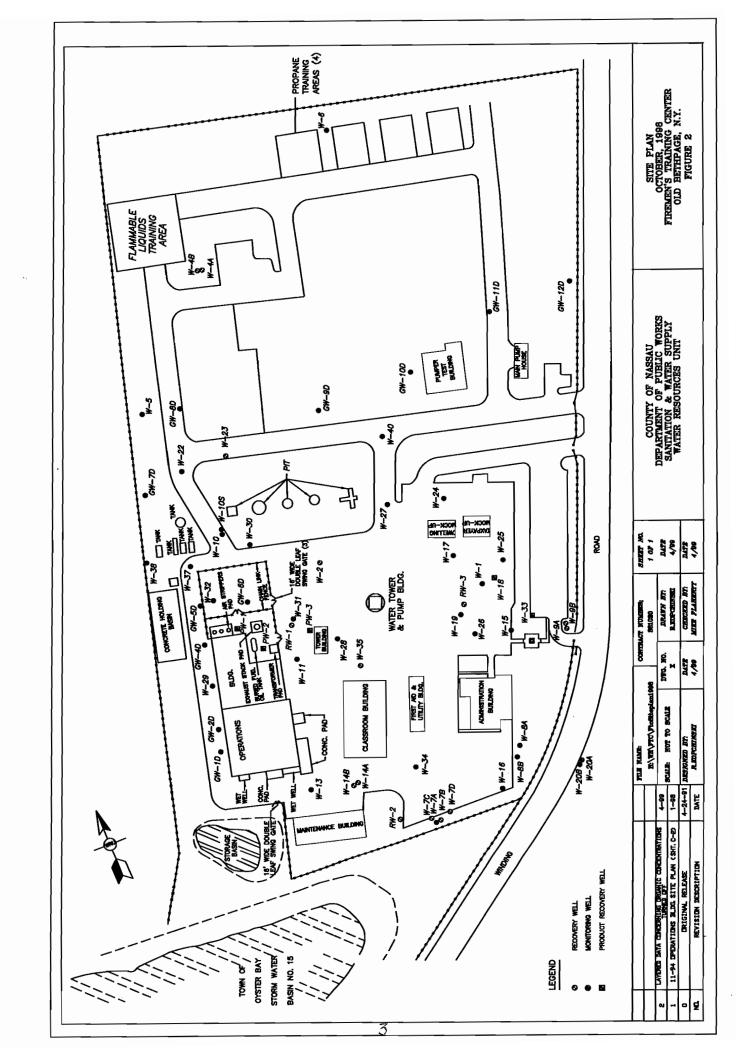
1.2 Site Description and History

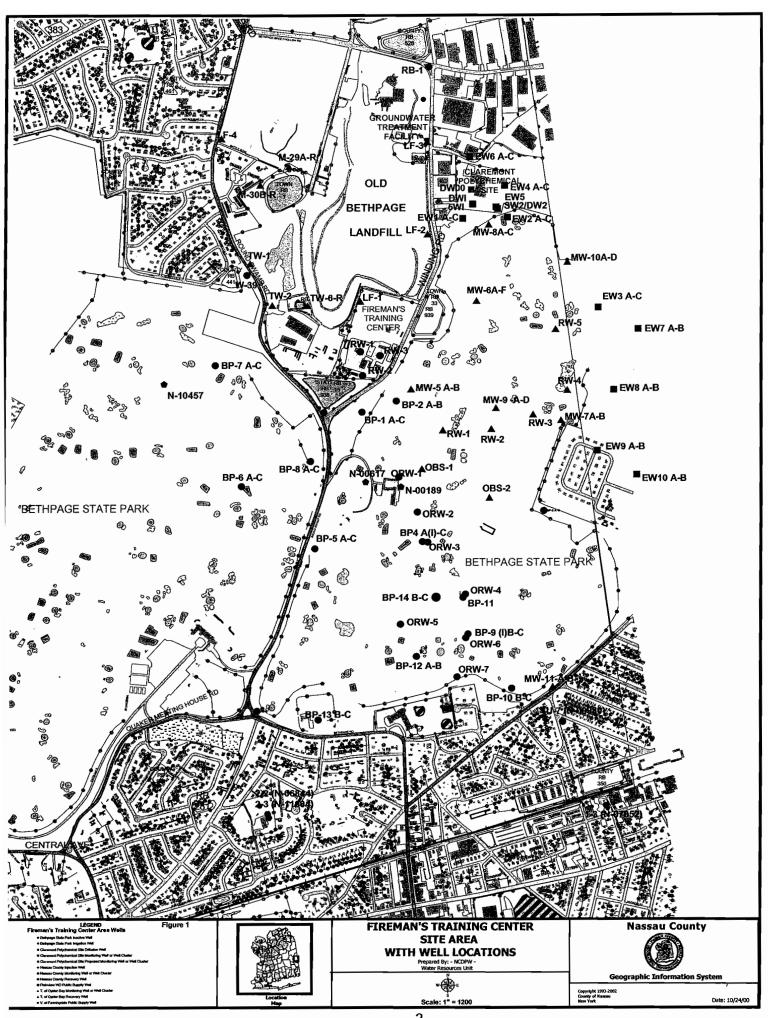
The FTC is located on a 12-acre site on Winding Road near Round Swamp Road in Old Bethpage, New York. It is bordered on the north and west by the former Old Bethpage Landfill, and on the south and east by Bethpage State Park (Figure 1). The site has been used since 1960 to conduct advanced fire fighting training for volunteer firemen, and continues today to serve these activities. Training exercises occur in open burn areas and in mock-up buildings located across the site (Figure 2).

Between 1970 and 1980, waste solvents, in addition to fuel oil and gasoline, were accepted at the site for use in training exercises. This practice was discontinued in 1980 and, since then, training exercises have been performed using only fuel oil and gasoline to ignite wooden pallets and straw.

The site contamination occurred primarily in the open burn areas, where fuel was poured directly onto the ground, and in the mock-up fields. In the mock-up buildings, unburned fuel and solvents were washed out of the buildings into drywells after each training session. These unlined drywells inadvertently served as conduits, carrying contamination down to the groundwater and contaminating the soils beneath the site.

In 1984, site improvements were made by the Nassau County Department of Public Works (NCDPW) to cap the burn areas and seal the drainage system leading to the drywells. A new drainage system was installed, including an oil/water separator to treat training site runoff. The discharge of the oil/water separator is connected to the sanitary sewer system.





1.2 Site Description and History (Cont.)

Based on NCDPW investigations conducted at the site, the New York State Department of Environmental Conservation (NYSDEC) added the FTC site to the State's Registry of Inactive Hazardous Waste Disposal Sites in December 1987, and upgraded the site to Class 2 level, one that poses a significant threat to the public or the environment, in March 1988. An Order of Consent was signed by the County in February 1989, requiring a Remedial Investigation/Feasibility Study (RI/FS) to be performed. The RI/FS was completed in 1992.

A record of decision (ROD) that described the remedial program for the site was subsequently approved by the NYSDEC in February 1993. The ROD called for an asphalt/concrete cap with institutional controls for shallow soils, pumping and treating on-site groundwater using three extraction wells, and pumping and treating off-site groundwater using seven extraction wells.

Camp Dresser & McKee (CDM) was the project's design consultant. CDM completed the design in October 1994. The project's construction plans and specifications went out to bid in November 1994. The November 1994 bids subsequently were rejected, due to issues concerning the contractors' responsibilities for one (1) year following the facility's startup. Revisions were made to the project's plans and specifications, limiting the contractors' role to just the facility's startup. The revised plans and specifications were re-bid in March 1995 and the construction contracts were awarded in February 1996.

SECTION 2

Summary of Remedial Construction Work

2.1 SUMMARY OF REMEDIAL CONSTRUCTION WORK

The work generally consists of the construction of groundwater extraction, treatment, and recharge facilities at and around the Nassau County Fireman's Training Center.

The work was performed under four prime contracts:

- General Construction, Contract No. S81021G, Silverite Construction Co., Inc., Hicksville, N.Y.
- 2. <u>Heating Ventilation and Air Conditioning</u>, Contract No. S81021H, J.K.B. Contracting Inc., Hicksville, N.Y.
- 3. Plumbing, Contract No. S81021P, James McCullagh Co. Inc., Plainview, N.Y.
- 4. Electrical, Contract No. S81021E, Welsbach Electric Corp. L.I., Plainview, N.Y.

The following is a general summary of the construction work associated with the FTC Groundwater Treatment Facility:

- Construction of groundwater extraction wells in Bethpage State Park (offsite) and at the Fireman's Training Center (onsite).
- 2. Construction of product recovery wells onsite.
- 3. Construction of the groundwater treatment facility. The elements of the treatment system train consist of: oil/water separation, metals precipitation, fluidized bed biological treatment, sand filtration, and air stripping of the groundwater. The treatment facility also includes equipment for sludge thickening, sludge dewatering and chemical feed systems.
- 4. Construction of an effluent discharge recharge basin and injection wells.
- 5. All site work, including site preparation, excavation, backfill, grading and site restoration.
- 6. Pumps, valves, piping and miscellaneous equipment.
- Buildings, structures and facilities necessary for the complete and proper finish of the contract.

2.2 GENERAL REQUIREMENTS

2.2.1 On-Site Inspection

The construction phase of the project was originally managed under a construction management agreement between Lockwood, Kessler & Bartlett, Inc., Syosset, N.Y. (LKB) and Nassau County. LKB was selected based upon their experience in the engineering design, construction management, and operation of a similar remediation facility at the Town of Oyster Bay's Old Bethpage Landfill, immediately adjacent to the FTC site. LKB also had on-staff, Chemical, Mechanical, Environmental and Electrical Engineers, and survey crews, which were assigned to the project, and provided services as needed. County engineers, operators and inspectors performed the shakedown and startup of the remediation facility. The following is a summary of the project's construction management:

Resident Engineer and Inspection Services:

- Review each bid and evaluate for completeness and accuracy.
- Prepare a health and safety plan for on-site employees.
- Ensure compliance with OSHA requirements.
- Coordinate with existing Fireman's Training Center Operations personnel.
- Coordinate with Bethpage State Park personnel.
- Perform required QA/QC material testing.
- Maintain quantities of work performed and ensure compliance with the terms of the contract.
- Prepare daily inspector reports.
- Provide a Hydro-geologist to monitor the installation of all wells.
- Prepare and review change orders.
- Schedule periodic job progress and coordination meetings.
- Settle all conflicts among various trades, conflicts with scheduling and resolving physical coordination conflicts.
- Review all applications for progress payments.

Submittal Review:

- Review and approve the contractor's bid breakdowns.
- Review and approve shop drawings, manufacturers technical data, and all other submittals.
- Review manufacturers' certifications.
- Review design calculations.
- · Review all layout and installation drawings.
- Review progress drawings.
- Review operation and maintenance manuals.
- Review proposed deviations and substitutions.

Design Services:

- Review/evaluate proposed or required design changes, additions or deletions to the work.
- Perform the required engineering and design calculations.
- · Prepare revised specifications and/or drawings.
- Prepare cost estimates for changes, additions or deletions.
- Witness testing as required.

Construction Schedule:

- Review proposed construction schedule.
- Provide a baseline schedule.
- Procurement schedule.
- Prepare schedule updates.
- Prepare a monthly cost requisition book.
- Prepare monthly progress reports and CPM updates.

2.2.2 Record Drawings:

Each prime contractor was required to maintain a daily record of work installed and modifications or changes made. The contractor was required to periodically submit progress drawings during the duration of the project showing the work completed and changes made. After all work was completed, one set of paper prints of the record drawings was submitted for review and acceptance. After acceptance, the Contractors submitted the mylar reproducibles and one set of paper prints.

2.2.3 Construction Photographs:

The General Contractor engaged the services of an experienced photographer to take job photographs. Preliminary photographs of the site prior to commencement of work were taken as directed by the engineer.

Thereafter, photographs were taken periodically as work progressed during the construction phase of the project. These photographs indicated the view, and general description of what the photograph represents. All photographs are on file with the NCDPW – Environmental Construction Unit and are available upon request.

2.2.4 Subcontractors:

General Contractor:

James McCullagh Co. Inc. Mechanical

LaFramboise Well Drilling Inc. Well drilling

Radon Construction Corp. Pre-engineered building

Jacobson & Company Inc.

Drywall, acoustic ceiling and wall panels

MDS Environmental Services, Inc. Environmental testing

Donaldson Acoustics Co., Inc.

Drywall and acoustic panels

Baybrent Tile Corp. Ceramic tile

Amendola's Fence Co. Chain-line fence

PMC Rebar, Inc. Reinforcing steel

Falco Construction Corp. Steel sheeting

United Iron Inc. Miscellaneous metals

Eldor Contraction Corp. Instrumentation and controls

McKeon Rolling Door Co., Inc. Roll-up doors

Penn Equipment & Tool Corp.

Miscellaneous equipment and tools

D.A.G. Floors, Inc.

Resilient flooring

Industrial/Construction Services Inc. Aluminum louvers

Dalma Painting Corp. Painting

Darling Landscaping, Inc.

Landscaping

Diamond Storefronts, Inc. Aluminum doors, windows and glazing

Truck Services, Inc. Monorail System

Stonhard, Inc. Seamless flooring

General Contractor (Cont.)

Materials Testing Lab, Inc.

Testing

Carlo Lizza & Sons Paving Inc. Asphalt paving

C K Steel Steel erection

Independent Metal System Inc. Erection of metal wall panels

Hampton CF Corp. Cured-in-place liner

Griffin Remediation Services Install vertical drains

Island Inst. Systems & Controls, Inc.

Conduit for fluid beds

RGM Liquid Waste Removal Corp. Removal of sediment/sludge

Sign Designers of NY, Inc. Signs

HVAC:

Aqua X Conservation Inc. Install fuel oil tank

Pyramid Sheetmetal Sheetmetal/Ductwork

Remi Insulation Insulation

South Shore Electric Electrical work

Code Inspections Air balancing and testing

Bain Industries, Inc.

Boiler start-up and fuel oil tank testing

Cascade Water Service Water treatment

1st Purity Inc. Water treatment

Electrical:

Premise Electrical Services Miscellaneous electrical work

Ronsco Electric, Inc. Electrical work

SECTION 3

Description of Variances and Change Orders

3.1 GENERAL CONTRACTOR - VARIANCES AND CHANGE ORDERS

CONTRACT NO. S81021G CONTRACTOR - SILVERITE CONSTRUCTION COMPANY

<u>CO#1</u>	Provide Necessary treatment of the development water	
	associated with off site recovery wells in Bethpage State Park.	\$60,328.00
<u>CO#2</u>	Revise test boring in recharge basin, including deeper	
	borings, split spoon sampling & percolation tests.	\$26,798.00
<u>CO#3</u>	Install three additional on-site product recovery wells.	\$161,828.00
<u>CO#4</u>	Change size of bearing bars for pipe trench grating.	\$ 8,486.00
<u>CO#5</u>	Modify lower platform of the air stripper towers.	\$13,523.00
<u>CO#6</u>	(a) Replace three inch water supply piping servicing the Tower Building.	
	(b) Provide Shut-off valve on new water main	
	that supplies water to the new Groundwater	
	Treatment Facility Building.	\$ 5,269.00
<u>CO#7</u>	Modify the acid wash system.	\$89,927.00
<u>CO#8</u>	(a) Install gate on the fence for the recharge basin	
	(b) Supply sleeves in the valve & injection well vaults	
	in the Recharge Basin.	\$ 1,956.00
<u>CO#9</u>	Install a house trap pit for the operations building.	\$ 1,505.00
<u>CO#</u> 10	Remove excess material & silt from the bottom of the	
	recharge basin.	\$30,474.00
<u>CO#</u> 11	Raise off-site Recovery Well #4 & install a vertical drain.	\$ 6,188.00

<u>CO#12</u>	Remove a concrete chamber under a metal building and a	•
	concrete obstruction on Winding Road.	\$ 6,717.00
<u>CO#13</u>	Perform additional well development of injection wells.	\$33,240.00
CO#14	Provide a cargo storage box.	\$ 3,300.00
<u>CO#15</u>	(a) Provide additional Durrock panels & doors for the mini-cabinet heaters	
	(b) Steel reinforcing for expansion joints between the slab	
	on grade and the arch over the wet wells.	\$ 3,138.00
<u>CO#16</u>	Provide hand railings for the steps at the recharge basin	
	bulkhead wall	\$ 4,726.00
CO#17	Change stairs adjacent to the sludge thickener tank from	
	fixed construction to removable bolted construction.	\$ 7,405.00
<u>CO#18</u>	Install submersible cable at three on-site wells.	\$ 4,077.00
CO#19	(a) Provide isolation valves on chemical lines	
	(b) Provide bypass system between on site and off-site	
	piping trains.	\$ 4,855.00
<u>CO#20</u>	Modify sulfuric acid piping & move sulfuric acid	
	pump #5.	\$20,977.00
CO#21	Replace existing polymer suction piping with a three (3")	
	header pipe from the polymer bulk storage tanks & provide	
	three (1") vertical takeoffs from the header to each of the	
	polymer blending units.	\$ 4,877.00
CO#22	Provide a seal water system for the air stripper	
	cleaning/recycle pump.	\$ 2,327.00
CO#23	Modify the Injection Wells for the piezometers & probes.	\$ 6,628.00
<u>CO#24</u>	Provide three schedule 80 PVC check valves on the suction	
	piping at the cleaning recycle pump in the Operations	
	Building.	\$ 1,862.00

<u>CO</u>	O#25 Modify the forklift.		\$ 2,321.00	
<u>CO#26</u> (a)		(a)	Provide three pressure relief valves on the air scour system	
		(b)	Four air vacuum relief valves on the flocculation tanks &	
			clarifiers.	\$11,891.00
CO	#27	(a)	Provide bypass the on-site influent flow past the metal	
			precipitation system directly to the fluidized bed,	
		(b)	Bypass the off-site influent flow past the	
			metal precipitation system to the intermediate wet well.	
		(c)	Redirect the on-site flow through the off-site metal	
			precipitation train & rapid mix tank to the clarifier sump.	
		(d)	Modify both on-site & off-site rapid mix weirs.	
		(e)	Provide two M-8 222/SNBP/TF/VT/VT with air exhaust	
			mufflers and a Wilden surge dampener model	
			NO-D2-SAP-TF-TF).	\$48,366.00
<u>CO#</u>	‡ <u>28</u>	Cre	dit for unused portion of the contract bid items as follows:	
A)	Dis	sposa	al of Contaminated Excavation.	(\$225,000.00)
B)	Inc	reme	ental Cost for Work in Protection Level "C".	(\$55,000.00)
C)	Cos	st of	Sulfuric Acid during Performance Testing.	(\$56,443.62)
D)	Cos	st of	Caustic during Performance Testing.	(\$67,725.49)
E)	Cos	st of	Polymer during Performance Testing.	(\$30,950.89)
F)	Cos	st for	Nutrient during Performance Testing.	(\$ 7,120.00)
G)	Cos	st for	Sludge Disposal during Performance Testing.	(\$18,000.00)
H)	Cos	st for	Waste Oil Disposal during Performance Testing.	(\$51,000.00)
I)	Pate	ching	g Soil Concrete Caps.	(\$10,000.00)
J)	Lab	. Te	sting & Checking Required by Tech. Specifications.	(\$ 5,495.00)
K)	Temporary Heat & Ventilation after Construction Completion.		(\$50,000.00)	
L)	Mir	orit	y Apprenticeship Training Program. (Painter).	(\$15,000.00)
			<u>Total</u>	(\$441,735.00)
<u>CO#</u>	<u> 29</u>	(a)	Provide an air station in the maintenance shop and	
		(b)	Change the pistons on Caustic Pumps #3 & #4.	\$ 5,045.00

<u>CO#30</u>	(a)	Provide bypass piping to run on-site influent through the off-site	
		metal precipitation system while off-site influent is run through	
		the bypass to the intermediate wet well.	
	(b)	Insulation on this piping and previously installed piping train	
		bypass revisions.	\$12,004.00
CO#31	(a)	Provide modify filter sludge piping, relocate polymer blend	
		feed pump #3 & provide additional polymer.	
	(b)	Repair three of the on-site/off-site BW level switches &	
		purchase four new BW level switches.	\$ 9,261.00
<u>CO#32</u>	Pro	vide insulation on various piping systems.	\$34,476.00
<u>CO#33</u>	Rele	ocate the air stripper influent water flow FIT-251-1, FIT-251-2,	
	FIT	-251-3, and the on-site infuent flow FIT-220 presssure	
	tran	smitters from the outside to the inside of the building.	\$ 6,872.00
CO#34	(a)	Remove & replace five Barish air diaphragm pump control	
	()	panels and	
	(b)	Substitute non-metallic hangers & support material for the	
		specified metallic materials in the chemical storage & pump	
		areas.	\$ 7,080.00
<u>CO#35</u>		form a supplementary acceptance test of the Netzsch Sludge	
	Filte	er Press.	\$ 4,436.00
		<u>Total</u>	\$210,428.00

3.2 ELECTRICAL CONTRACTOR - VARIANCES AND CHANGE ORDERS

CONTRACT NO. S81021E CONTRACTOR - WELSBACH ELECTRIC

- $\underline{CO\#1}$ (a) Install temperature switch in the off-site & on-site well vaults.
 - (b) Provide conduit & wire for the relocated eyewash station in room #122.
 - (c) Supply disconnect switches for the control & effluent valves. \$5,140.00
- <u>CO#2</u> Upgrade panel boards DP-1, DP-1A & DP-2A. \$12,977.00

<u>CO#3</u>	Perform electrical revisions required in the valve and injection well			
	vaults.		\$15,495.00	
<u>CO#4</u>	Revise lighting fixtures in the Operations Building.		\$22,012.00	
<u>CO#5</u>	Modify the electrical service.			
<u>CO#6</u>	Modify the lightning protection system on the Operation Bldg.			
<u>PENDIN</u>	IG CO#7 Contract Settlement.		(\$169,829.59)	
		<u>Tota</u> l	(\$60,642.59)	

3.3 PLUMBING CONTRACTOR - VARIANCES AND CHANGE ORDERS

CONTRACT NO. S81021P CONTRACTOR - JAMES McCULLAGH, COMPANY, INC.

- CO#1 (a) Provide a new sanitary house trap along with the necessary Plumbing work for a sanitary waste line located on the East side of the operations Building.
 - (b) Provide two 2" ball valves, one 2.5" ball valve and one 2.5" check valve on the piping to the emergency water storage tanks.

\$ 2,000.00

CO#2 Credits for the unused allowance items.

- (a) Incremental cost for work in Protection Level "C".
- (b) Laboratory Testing Required by Technical Specifications.

(\$12,700.00)

<u>Total</u> (\$10,700.00)

3.4 HVAC CONTRACTOR - VARIANCES AND CHANGE ORDERS

CONTRACT NO. S81021H J.K.B. CONTRACTING INC.

CO#1 (a) Modify ductwork.

(b) Modify boiler ignition system.

(c) Credit for incomplete punch-list work. (\$20,949.00)

3.5 PROJECT'S VARIANCES AND CHANGE ORDERS ANALYSIS

The Nassau County DPW has instituted Contract Closeout Procedures (CCP) to determine whether there have been excessive impact costs due to errors and omissions on the part of the designer, and provides a basis for cost recovery, if warranted. The CCP is a two (2) step analysis, the first step being a generic analysis of the impact costs compared to generic limit or "threshold" expected for various project sixes in dollars; the second step, performed if the first step exceeds the generic threshold, is a more detailed Project Specific Analysis.

The FTC project size, the dollar value of all contracts, was \$18,157,160, which places it on the Generic Project Threshold Table between project sizes of 3,650,000 and 24,300,000. The generic threshold percentage for the FTC project would therefore be between 2.5 % and 3.0%. A copy of the Generic Project Threshold Table for the period January 2002 and January 2004 can be found in Appendix B. The FTC project's actual cost of all change orders as a percentage of the project's total awarded cost is 0.65%. This value is well below the 2.5% - 3.0% generic threshold Limit and, therefore, indicates a project that did not have excessive change orders. As such, step 2, a Project Specific Analysis is not warranted.

	Original Contract Amount	Total Change Orders	CO % of Contract
General Contract		,	
	\$15,250,000.00	\$210,000.00	1.38%
HVAC Contract			
	\$595,000.00	(\$20,949.00)	N/A*
Plumbing Contract	4,	(1-1-1)	
Training Contract	\$324,670.00	(\$10,700.00)	N/A*
Planting! Courter of	\$32 4 ,070.00	(\$10,700.00)	IVA
Electrical Contract			
	\$1,988,000.00	(\$61,392.90)	N/A*
TOTAL			
	\$18,157,670.00	\$117,386.10	0.65%

^{*} Total amount of Change Orders resulted in no increase to the cost of the prime contractor's original awarded contract cost.

SECTION 4

System Testing and Startup

4.1 <u>DESCRIPTION OF GROUNDWATER TREATMENT SYSTEM</u>

The Fireman's Training Center Groundwater Remediation Facility (FTCGRF) was constructed to extract groundwater from three (3) onsite and seven (7) offsite recovery wells, treat the water to meet the State's required standards, and discharge the treated water to a County recharge basin and/or three groundwater injection wells. The treatment plant was constructed for a maximum combined influent flow of 2.6 million gallons per day (mgd) or 1800 gallons per minute (gpm). The offsite recovery well network provides a maximum influent flow of 1500 gpm. The onsite recovery well network provides a maximum influent flow of 300 gpm.

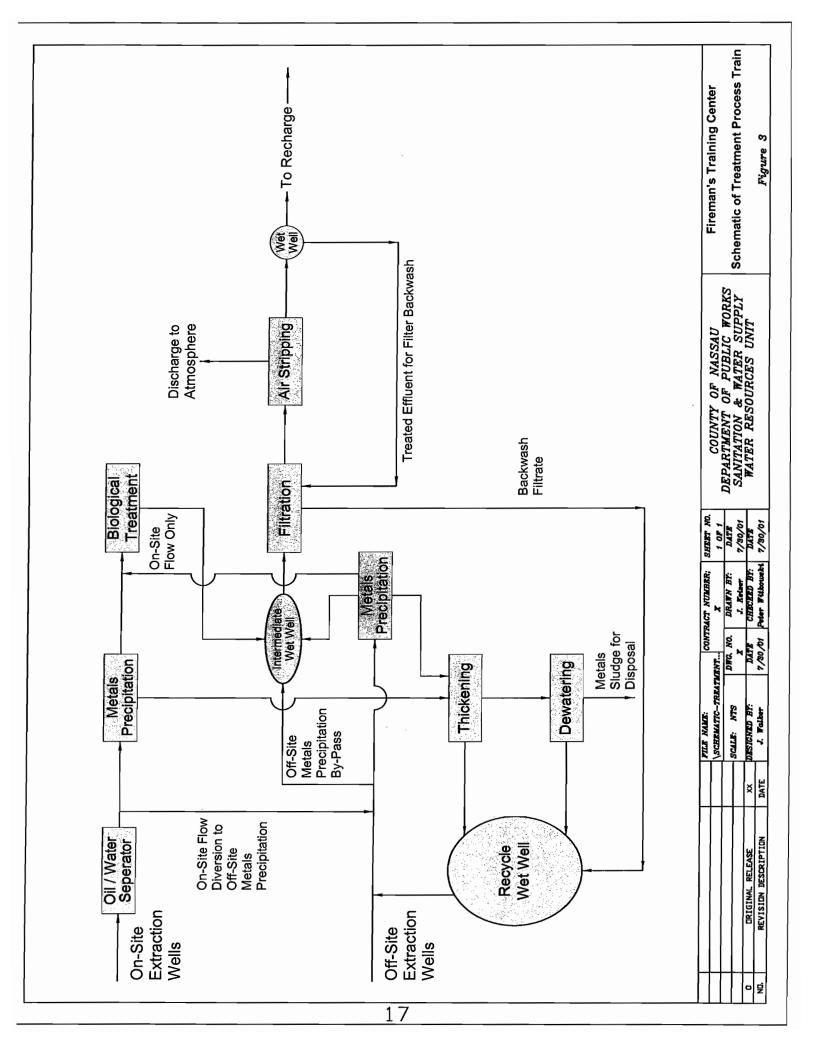
In accordance with the State's Record of Decision (ROD), the treatment process consists primarily of air stripping the groundwater. Oil/water separation, metals removal and sand filtration prior to the air strippers to optimize the stripping process and to enable the eventual recharge of the treated effluent back to the groundwater system. Biological destruction of certain organic compounds had been proven by a past pilot study to be more efficient than air stripping, thus a biologic fluidized bed unit was installed on the onsite treatment train. The entire treatment process system is presented in schematic form in Figure 3.

4.2 ON-SITE TREATMENT SYSTEM TESTING AND STARTUP

In order to simulate an on-site flow of 300 gpm, a temporary bypass was installed. Piping was dis-assembled on the influent side of the oil/water separator and the Venturi flowmeter along with the instrumentation tubing was reinstalled and situated as to allow proper function of simulated flow rates through the temporary bypass pump and piping.

Upon completion of the above, simulated flow rates of 100, 200 and 300 gpm's were tested. During the tests all floats and modulation float valves were assessed. Upon the on-site Engineer's request, float elevations were modified, as needed. Any fine-tuning of modulating valves #V-226-2 and V-237-2 was also done.

All rotating devices such as augers and mixers were run during this procedure for a total of 8 hours each. Variable speeds for mixers were demonstrated for a one-day period.



The Fluidized Bed - GAC system was run and monitored by an onsite factory representative. All required readings for the system's pumps, gauges and oxygen generation equipment were recorded. The on-site influent pumps and fluidized bed pumps were all yellow-tagged in accordance with their respective pump curves.

4.3 OFF-SITE TREATMENT SYSTEMS TESTING AND STARTUP

The off-site treatment system is similar to the on-site system with the exception of the fluidized bed system. In order to simulate an off-site treatment system flow, all tanks, vessels along with the recycle, intermediate, effluent and clear wells were filled with water to normal operating levels.

The following flow sequence took place. The recycle well submersible pumps #1 and 2 were on at the same time. Water was pumped to the off-site influent piping, through the metals precipitation system then discharged into the intermediate wet well. At that time all rotating devices (augers/mixers) were operated at their various expected speeds. Three of the four intermediate vertical turbine pumps were pumped at approximately 2,040 gpm through two of the three dual media sand filters. Flow from the sand filters then proceeded via a common 12" header pipe to the system's three air stripping units. Following air stripping water was discharged into the clear wells beneath each stripping tower and then flowed by gravity to a common effluent wet well.

To begin testing, one (1) effluent pump pumped water from the effluent wet well at approximately 1,800 gpm; 480 gpm was diverted to the recycle wet well to compensate for lost water and the balance bypassed to the intermediate wet well to complete a closed loop. Throttling of valves was needed to maintain equal flow rates of various pumps.

At this time, any adjustments of floats, surge relief valves, modulating valves and instrumentation was done, as requested by the Field Engineer. After all field adjustments were made a backwash sequence of the dual media sand filters was completed. The entire offsite treatment train was operated as a complete system for 8 hours.

4.4 ON-SITE/OFF-SITE SLUDGE SYSTEMS

Air operated diaphragm pumps are used for the removal, transfer and recirculation of on-site and off-site sludge. These pumps operate in a wide range of flows. However, the systems had to wait for the generation of a sufficient volume of sludge to be tested. The same was true for the filter press and the sludge thickener; their testing would be done once a sufficient volume of sludge was generated.

Due to the low generation of sludge at the FTC facility, it was determined that another source of iron sludge was needed to complete the testing and acceptance of the sludge treatment systems. The County was involved in another groundwater remediation, the Purex Site in Mitchel Field. The Purex Site was similar to the FTC Site in that both required treatment of volatile organics in the groundwater and both sites needed to address naturally existing iron, as a byproduct. Therefore, with State approval, on October 3, 2001, the County had transported 3,600 gallons of iron sludge from the Purex Site to the FTC facility. After several filter press runs, the FTC filter press performed as specified in the contract documents, and was accepted by the County. A more detailed description of these tests, along with approval letters can be found in Appendix D.

SECTION 5

Construction Schedule Narrative

The NCFTC project specified that the County would retain and pay for a Critical Path Method (CPM) consultant to assist the contractors in the preparation of a detailed working plan and schedule, and in subsequent updates. Lockwood, Kessler & Bartlett, Inc., (LKB) was the construction manager for the County on the NCFTC project. LKB utilized James R. Beach & Associates, Inc., as their sub-consultant to perform the construction scheduling services for the project.

The only specified milestone was the completion and testing of the treatment facility required to start treatment of existing groundwater contamination. The notice to proceed, original contract completion date and date of beneficial occupancy date were as follows:

Notice to Proceed April 1, 1996

Original Contract Completion Date April 1, 1998

Date of Beneficial Occupancy July 16, 1999

During the first months of the project, through the end of 1996, there were minimal delays associated with two identified critical paths, the trenching work in Bethpage State Park and the construction of the treatment building's slab.

The schedule updates during the first quarter of 1997 indicated a third critical path impacting the completion date. The delivery of the local control panels (LCP), installation of conduit, wire pulling and terminations started to impact the schedule. Delays associated with the trenching work in the park and the completion of the building panels also impacted the schedule. As of March 31, 1997 the projected completion date was June 17, 1998, 55 days behind schedule.

By the end of the 2nd quarter of 1997, the CPM report indicated the project was back on schedule due to the electrical prime contractor agreeing to reduce his schedule durations for wiring and termination activities that follow the LCP delivery. All major mechanical equipment had been delivered with the exception of the air stripper equipment and the vertical turbine pumps. The critical path at that time was the delivery of the LCP's.

The schedule slipped in the 3rd quarter of 1997, due to delays in installation of instrumentation and control (I&C) devices and LCP software development. The ability of the general contractor's instrumentation subcontractor (ANVIC) to complete the loop diagrams and development of software had become a major concern. As of September 30, 1997, the projected completion was June 3, 1998, 63 calendar days behind schedule.

The schedule continued to slip in the 4th quarter of 1997, due to delays in installation of field instruments & control (I&C) devices, loop diagrams/wiring diagrams and LCP software development. As of January 8, 1998, the projected completion date was August 3, 1998, 125 calendar days behind schedule.

The schedule continued to slip in the 1st quarter of 1998, due to delays in the completion of wiring diagrams, interconnection diagrams, installation of conduit, wiring, and terminations followed by startup and testing. As of March 31, 1998, the projected completion date was August 10, 1998, 132 calendar days behind schedule.

Lockwood, Kessler & Bartlett, Inc., (LKB), and their sub-consultant, James R. Beach & Associates, Inc., ceased all engineering services associated with the project as of May 8, 1998. Thereafter, the County's in-house scheduler updated the project schedule.

The project's critical path continued to be the completion of wire pulling and terminations required prior to startup testing, and the performance of the 30-day test. As of July 13, 1998, the projected completion date was October 22, 1998, 204 calendar days behind schedule.

During the 3rd quarter of 1998 the project's critical path was associated with coordination and completion of the yellow and blue tag testing of equipment and control instrumentation. Slippage of the schedule continued throughout this quarter. As of September 17, 1998, the projected completion date was December 1, 1998, 244 calendar days behind schedule.

Delays continued during the 4th quarter of 1998. The critical path was associated with the completion of blue tag testing and system start up testing. As of January 15, 1999 the projected completion date was March 29, 1999, which was 362 calendar days behind schedule.

During the 1st quarter of 1999 the contractors continued operational training of County personnel and submission of Operation and Maintenance (O&M) Manuals. Preliminary operation of the on-site and off-site treatment system had commenced. The Envirex fluidized bed was seeded the week of April 26, 1999, with the 30-day operational test to follow. An incomplete work list/punch list called the "open items list" was being utilized at this time to track the status of all incomplete work, shop drawing submittals, O&M manuals, As-built drawings training etc.

By June of 1999, all the components necessary to schedule the 30-day operational test were in place. The schedule indicated a completion date of July 13, 1999 as the completion date of the test. The actual completion date of the 30-day test was July 16, 1999. At the completion of the 30-day testing period the County accepted the building for beneficial use and began operating the treatment facility.

After the completion of the 30-day test, and the facility was being operated by County personnel, no further CPM updates were performed. Bi-monthly meetings continued to be held during the closeout period, wherein the open items list was updated, to track the status of all outstanding work until it was complete. The open item list tracked all submittals, as-built drawings and O&M's until they were approved. Additionally, it tracked change order processing, spare part transmittal, training and punch list work.

Certificates of completion were issued after all outstanding issues were resolved and the contract specified two (2) year maintenance and guarantee period was completed. The dates of completion were as follows:

Plumbing Prime - Certificate of Completion - accepted as of January 5, 2001. Electrical Prime - Certificate of Completion - accepted as of April 15, 2002. HVAC Prime - Certificate of Completion - accepted as of July 1, 2002. General Contractor - Certificate of Completion - accepted as of December 22, 2003. While a significant period of time elapsed between the Date of Beneficial Occupancy, July 16, 1999 and issuance of the final Certificate of Completion, December 22, 2003, the work was substantially complete. All major equipment items and building systems were installed and operational, only Punch List items and administrative issues remained. These items were addressed at a deliberate pace to ensure a satisfactory outcome. The County continued to operate the facility during this time period, therefore, the groundwater remediation was not impacted.

APPENDIX A



COUNTY OF NASSAU DEPARTMENT OF PUBLIC WORKS

1194 Prospect Avenue Westbury, NY 11590-2723

March 30, 2005

New York State Department of Environmental Conservation Division of Environmental Remediation Bureau of Remedial Construction 625 Broadway Albany, NY 12233

Re: NCFTC - Site No. 1-30-042

Engineer's Construction Certification Report

As - Built Drawing Certification

Gentlemen:

This Department has supervised and inspected the construction of Fireman's Training Center Groundwater Remediation Facility in Old Bethpage, New York. All prime contractors were required by General Condition 36 (GC36) of each contract to submit Record Drawings As-Built, however, GC36 did not obligate the contractors to provide Professional Engineer certification of the Record Drawings.

The Record Drawings As-Built have been previously submitted as Appendix A to the Engineer's Construction Certification Report. Members of my staff have reviewed these drawings and found them to be a true an accurate record of the work as constructed

P.E. Stamp

If you have any questions, please contact Mr. Peter J. Witkowski at (516) 571-6970.

Very truly yours,

Commissioner of Public Works

PJG:PJW:cs

c: Joseph L. Davenport, Deputy Commissioner Kenneth G. Arnold

Joseph N. Walker

Ed Visone, Environmental Construction

PLEASE SEE ATTACHED RECORD DRAWINGS

APPENDIX B

GENERAL CONTRACTOR CHANGE ORDERS

CALITAL CONTRACT CHANGE CADER S&WS/ DMP COUNTY OF NASSAU, NY DEPARTMENT DATE OF ADVISEMENT TRANSACTION CODE CONTRACT NUMBER FUND CNTM PW C.A.P 8.1.2.0.1.G VENDOR IDENTIFICATION: VENOOR NAME: SILVERITE CONSTRUCTION 11-2098433 PROJECT ID: UNE COST CHANGE ORDER # DESCRIPTION: Fireman's Training Center AREA PROJECT Groundwater Treatment Facility ØØØ ORIGINAL BID AMOUNT PREVIOUS REVISIONS: THIS REVISION: MARK APPRO REVISED AMOUNT: \$15,250,000.00 \$15,310,328.00 Ø.ØØ +\$60,328.00 \bigcirc - \bigcirc NATURE OF CHANGE: Additional labor and material to provide the neccessary treatment of the development water associated with the offsite recovery wells in Bethpage State Park. \$60,328.00 Cost this Revision G-2 (n) GRANT NUMBER: CONTRACTOR: CONSTR.CO. SEE ATTACHMENTS (MApplicable) BY: 810216-ct **CERTIFICATE OF** COMPTROLLER'S CERTIFICATION: 4-14-97 TITLE: DATE ACCEPTANCE I hereby certify that an unencumbered RECOMMENDED INTO NUMIS COMMISSIONER DE DATE certify that this document FORM APPROVED was accepted into NUMS. **COUNTY COMPTROLLER** COUNTY ATTORNEY APPROVED: Title:

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CO-680, 8/01 REV. 10/94

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CO-680, 8/91 REV. 10/94

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APITAL CONTRACT CHANG ORDER S&WS / DMP COUNTRY OF NASSAU, NY DATE OF ADVISEMENT TRANSACTION COOE DEPARTMENT CONTRACT NUMBER CAP CNTM PW 8, 1, 0, 2, 1, G VENDOR IDENTIFICATION. VENOOR NAME 11-2098433 SILVERITE CONSTRUCTION UNE . PROJECT IO: COST CHANGE ORDER # DESCRIPTION: AREA PROJECT Fireman's Training Center 19 8.1 ØØØ PREVIOUS REVISIONS ORIGINAL BID AMOUNT THIS REVISION: MAK APPRO REVISED AMOUNT: \$15,723,740.00 \$4,855.00 \$15,250,000.00 +\$468,885.00 O - 🖨 NATURE OF CHANGE: Additional labor and material to perform extra work at the Fireman's Training Facility Groundwater Treatment Facility Project as follows: Provide isolation valves on all chemical lines at points of entry and discharge. Provide a bypass system between the on-site & off-site piping trains. \$4,855.00 Cost this Revision G-24,25 GRANT NUMBER: SEE ATTACHMENTS EPITE CONSTR. CO (Y Applicable) BY: 81021 9/8/98 CERTIFICATE OF COMPTROLLER'S CERTIFICATION: TITLE: DATE **ACCEPTANCE** I hereby certify that an unencumbered RECOMMENDED INTO NUMIS sufficient to cover this contract OMMISSIONER, DPV certify that this document Name: COUNTY COMPTROLLER APPROVED: Title: COUNTY EXECUT Date:

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COUNTY OF NASSAU, NY CAPITAL CONTRACT CHANGE ORDER S&WS/dmp										
DATE OF ADVISEMENT GREEN CAP TRANSACTION CODE	CNTM	PW	8 1 0 2 1 G							
VENDOR NAME: SILVERITE CONSTRUCTION	VENDOR IDENTIFICATION: VF 11-209	98433								
LINE # PROJECT ID: COST OBJ CHANGE GROUP	LINE # PROJECT IO: COST OBJ CHANGE DESCRIPTION: GROUP ORDER #									
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Fireman's Training Cent	ter								
	THIS REVISION: S2,327.00		751,921.00							
NATURE OF CHANGE:										
			,m							
Additional labor and material to provi	•									
pump in the Fireman's Training Center	er Groundwater Treatment Facility	Operations Bu	ilding.							
			-							
<u> </u>	32,327.00									
	Cost this Revision									
(i)		[G-26							
CONTRACTOR: SILVISRITE CONISTE CO	SEE ATTACHMENTS GF	RANT NUMBER: Applicable)								
VIC PRES 11/19/97	COMPTROLLER'S CERTIF	CATION:	CERTIFICATE OF							
RECOMMENDED: CARAM	I hereby certify that an unencumber	-//1	ACCEPTANCE							
12/2/18	balance sufficient to cover this con	Changed	INTO NUMIS							
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COUNTY ATTORNEY DATE	COUNTY COMPTROL	LER	J. Solimeno							
APPROVED:	Title:		Name:							
COUNTY EXECUTIVE DATE DATE	Date:		Date: CO-680, 8/91; REV. 10/94							

COUNTY OF NASSAU, NY	CAP	ITAL CON	TRAC	CT CHANGE (ORDE	R	Se	&WS/dmp
DATE OF ADVISEMENT 98	FUND TRAN	ASACTION CODE		ТМ			PW CONTRACT	
VENDOR NAME: SILVERIT	E CONSTRUC	CTION	VENDOR	IDENTIFICATION:	11-2098	8433		
LINE # PROJECT IO: AREA 0 PROJECT 0 2	COST GROUP	OBJ CHANG ORDER ØØØ 23	E DE	scription: Fireman's Trainin	ng Cente	 er		
\$15,250,000.00	+\$501,921.00	0	CIRCLE	THIS REVISION: \$6,628.00				D AMOUNT: 758,549.00
NATURE OF CHANGE:		·						
				njection Wells for the g				Project.
								-
			\$6,628.0 Cost this	00 Revision				
P)							[G-27
CONTRACTOR:	170 Co	USTR.		SEE ATTACHMENTS	GR.	ANT NUMB	ER:	
BY: Trank (Krople	1/2/1/90	C	OMPTROLLER'S C	ERTIFIC	CATION:		CERTIFICATE OF
TITLE:		PATE 7	_	I hereby certify that an un			1	ACCEPTANCE
RECOMMENDED	5 12	2/2/P8	/	balance sufficient to cove			1	INTO NUMIS
COMMISSIONER, DAVID	910)	12/11/0	R	Name:	heo	le_		I certify that this docume was accepted into NUMIS.
COUNTY ATTORNEY APPROVED:		DATE		COUNTY COM	PTROLL	.ER		J. Solinero Name:
COUNTY EXECUTIVE	<u> </u>	42498 DATE		Date: ////				Dale: CO-680, 8/91; REV. 10/9

CAPITAL CONTRACT CHANGE ORDER S&WS/dmp										
ATE OF ADVISEMENT CA	TRANSACTION CODE	CNTM	PV	0 001110011001100						
VENDOR NAME:	Namelia	VENDOR IDENTIFICATION:	11-2098433							
SILVERITE CONSTRUCTION VF										
INE # PROJECT IO:	COST OBJ CHANG GROUP ORDER	*	- 1							
1 81 0 PROJECT 1	$\begin{bmatrix} 4 & \emptyset \emptyset \emptyset \end{bmatrix} \begin{bmatrix} 24 & 1 \end{bmatrix}$	Fireman's Traini	ng Center							
		ARK APPRO THIS REVISION;		REVISED AMOUNT:						
\$15,250,000.00 +\$5	08,549.00	\$1,862.00		\$15,760,411.00						
ATURE OF CHANGE:										
				•						
Additional la	abor and material to prov	ide three schedule 80 PVC	check valves on	the suction						
		n the Fireman's Traning Ce								
		·								
				-						
				·						
• ·										
		\$1,862.00								
		Cost this Revision								
				G-3 2						
(D)										
CONTRACTOR	C P 110 1	SEE ATTACHMENTS	GRANT NUM	BER:						
BY: Prouß	F CONSTR-		(N Applicable)							
VIC PARS	WW. 198	S / U2 1 COMPTROLLER'S C	ERTIFICATION:	. CERTIFICATE OF						
TITLE:	DATE	I hereby certify that an un	encumbered	ACCEPTANCE						
RECOMMENDED:	16.	betance sufficient to cow		INTO NUMIS						
OMMISSION PROPERTY OF A	12/2/10	present in the appropriat	1//							
	June	peleuch	keote	I certify that this document						
ORM APPROVED:	Med 18/17/6	Name:		NUMIS.						
OUNTY ATTORNEY	DATE	COUNTY COM	PTROLLER	L' dolinero						
PPROVED:		Title:		Name:						
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OUNTY EXEQUITVE	DATE!	Date:		Date:						
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CAPITAL CONTRACT CHANGE ORDER S&WS/dmp COUNTY OF NASSAU, NY DEPARTMENT C A P DATE OF ADVISEMENT TRANSACTION CODE bMVENDOR IDENTIFICATION: 11-2098433 SILVERITE CONSTRUCTION VF PROJECT ID: ങ COST CHANGE ORDER # DESCRIPTION: LINE # GROUP PROJECT 4 Fireman's Training Center 25 ØØØ ORIGINAL BID AMOUNT PREVIOUS REVISIONS: THIS REVISION: REVISED AMOUNT: MARK APPRO CIRCLE \$15,250,000.00 +\$510,411.00 \$2,321.00 \$15,762,732.00 O- lo+ NATURE OF CHANGE: Additional labor and material to modify the fork lift for the Fireman's Training Center Operations Building. \$2,321.00 Cost this Revision G-31 GRANT NUMBER: CONTRACTOR: ☐ SEE ATTACHMENTS BY: **CERTIFICATE OF** COMPTROLLER'S CERTIFICATION: TITLE: **ACCEPTANCE** I hereby certify that an unencumbered INTO NUMIS certify that this document accepted into Name: **COUNTY COMPTROLLER** Title: APPROVED: COUNTY EXECUTIV Date: CO-680, 8/91; REV. 10/94 NUMIS 551 a

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CO-680, 8/91; REV. 10/9-

COUNTY OF NASSAU, NY	CAPITAL CONTRACT CHANGE ORDER S&WS/drap									
DATE OF ADVISEMENT	FUND TRANSACTION CAP		NTM	DEPARTMENT PW	CONTRACT NUMBER					
VENDOR NAME:	TE CONSTRUCTION	VEN	DOR IDENTIFICATION: VF 11-2	098433						
LINE # PROJECT IO:	COST OBJ	CHANGE ORDER #	DESCRIPTION:							
1 81 0 PROJEC		26	Fireman's Training Co	enter						
\$15,250,000.00	+\$512,732.00	MARK API CIRCLI	THIS REVISION: \$11,891.00		SED AMOUNT: \$15,774,623.00					
NATURE OF CHANGE:										
	ional labor and materiand materiandwater Treatment Fac		he following in the Fireman ns Building:	's Training Cent	ter					
1) Three pressure relief valves on the air scour system.										
2) Four air vacuum relief valves on the flocculation tanks and clarifiers.										
					_					
·										
			891.00							
		Cos	t this Revision							
6					G-28, 30					
CONTRACTOR:		- T	SEE ATTACHMENTS	GRANT NUMBER	:					
BY: Trank	CONSTR GO IN		810216	₩ <u></u>						
TITLE: VIC. PRE	S 12/7/	\$P	COMPTROLLER'S CERT	IFICATION:	ACCEPTANCE					
RECOMMENDED /		<u></u>	I hereby certify that an unencum	_ //	INTO NUMIS					
COMMISSIONER DPW	12/0/	Ø	procent in the appropriation to		7					
FORM APPROVED:	Maller Co	1-1/1	Mame:	auti	I certify that this docume was accepted into NUMIS.					
COUNTY ATTORNEY	DATE	18	COUNTY COMPTR	OLLER	L. Solemeno					
APPROVED:	4 / /	,	Title:		Name:					
COUNTY EXECUTIVE	12/21/ DATE	58	12/1/7/ Dayle:		12/18/98 Date:					

NUMIS 551 a

CAPITAL CONTRACT CHANG S&WS/dmp COUNTY OF NASSAU, NY TRANSACTION CODE DATE OF ADVISEMENT CONTRACT A MBER 8 . CNTM PWVENDOR IDENTIFICATION: 11-2098433 SILVERITE CONSTRUCTION PROJECT IO: COST DESCRIPTION: LINE# CHANGE ORDER # PROJECT 2 Fireman's Training Center Groundwater Treatment Facility 27 ØØØ DRIGINAL BID AMOUNT PREVIOUS REVISIONS: THIS REVISION: REVISED AMOUNT: MARK APPRO CIRCLE \$15,250,000.00 +\$524,623.00 \$48,366.00 \$15,822,989.00 NATURE OF CHANGE: Additional labor and material to provide the following: 1. Bypass the onsite influent flow past the metal precipitation system directly to the fludized bed. 2. Bypass the offsite influent flow past the metal precipitation system to the intermediate wet well. 3. Redirect the onsite influent flow through the offsite metal preceipitation train and rapid mix tank to the clairifier sump. 4. Modify both the onsite and offsite rapid mix tank weirs and install adjustable weirs. 5. Provide two M-8 Wilden diaphragm pumps, model No. M-8 222/SNPB/TF/VT/VT with air exhaust mufflers and a Wilden surge dampener, model No. D2-SAP-TF-TF. \$48,366.00 Cost this Revision G-36 GRANT NUMBER: CONTRAC ■ SEE ATTACHMENTS gtruction Co., Inc. **CERTIFICATE OF** COMPTROLLER'S CERTIFICATION: 2.11.00 DATE **ACCEPTANCE** I hereby certify that an unencumbered SIMUN OTAL 15 Jeno DATE certify that this document accepted into NUMIS. COUNTY COMPTROLLER Name Title: DATE CO-680, 6/91; REV, 10/94

CAPITAL CONTRACT CHANGE ORDER

COUNTY OF NASSAU, NY	MIRACI	CHANGE	NDEK	S&WS/a	lmp
DATE OF ADVISEMENT CAP TRANSACTION CODE	CNTI		٠ .	NUMBUT 8 CON	NTRACT NUMBER
VENDOR NAME: SILVERITE CONSTRUCTION	VENDOR IDENT	TIFICATION: VF	11-2098433		
ļ	wor I sees				
AREA PROJECT GROUP ORD	ANGE DESCRI				
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	8 Firem	an's Training Ce	nter Groundy	vater Treatment	t Facility
ORIGINAL BID AMOUNT PREVIOUS REVISIONS:	MARKAPPRO THIS	REVISION:		REVISED AMOUN	<u></u>
\$15,250,000.00 +\$ 572,989.00	CIRCLE	(\$441,735.00)		 381,254.0
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NATURE OF CHANGE:					
A credit for the unused portion of (the contract hi	d itama as follow	ıc•		
A credit for the unused portion of t					
	ARY OF CR	EDIT QUANTI	TIES		
ITEM		CONTRACT	COST	-	
NO. DESCRIPTION	 	UNIT PRICE	TO DATE	CREDITS	
#08 Disposal of Contaminated Exca		\$225,000.00	\$0.00	(\$225,000.00)	
The state of the s		\$5,000.00	\$0.00	(\$5,000.00)	
		\$12,000.00	\$5,556.38	(\$6,443.62)	
		\$81,000.00	\$13,274.51	(\$67,725.49)	
#12 Cost of Polymer during Performance #13 Cost for Nutrient during Performance		\$37,000.00	S6,049.11	(\$30,950.89)	-
#14 Cost for Sludge Disposal during Performance		\$8,000.00	\$880.00	(\$7,120.00)	_
#15 Cost for Waste Oil Disp. during Perform		\$18,000.00	\$0.00	(00.000,812)	-
#17 Patching Soil Concrete Cap		\$1,000.00	S0.00	(\$1,000.00)	-
#18 Lab. Testing & Checking Required by		00.000,012	\$0.00	(\$10,000.00)	. —
#19 Temp. Heat & Ventilation after Const.		\$10,000.00	\$4,505.00	(\$5,495.00)	
#21 Minority Apprenticeship Training Progr		\$15,000.00	50.00	(\$50,000.00)	·/
Talling (10g)	rain (rainter)	313,000.00	S0.00	(\$15,000.00)	
	(0.441 225 0	0	TOTAL	(\$441,735.00)	+
	(\$441,735.0	0)			
	Cost this Rev	ision			
				G-37	
ONTRACTOR: Construction Co., Inc.	Пев	E ATTACHMENTS	GRANT NI	UMBER:	
Silverite Construction Co., Inc.		EATTACHMENTS	(W Applicable)	
C. Philad Start	0014		- July Tio	CER.	TIFICATE OF
TLE: DATE	COMI	<u>PTROLLER'S CL</u>	RIFICATIO	//N.	
ECOMMENDED: A A I	i be	ereby certify that an une	incumbered	2	CEPTANCE
7/13/2	<u> </u>	lence fufficient to con-	this contract is	IN.	TO NUMIS
DIMINISIONERO DEVI	Pr	pont in the appropriate	or to be Changed.	/	
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3/23/00	Nam	10:		- was	NUMIS.
2 (1) 00 19 (V) V			D T DC::		<u> </u>
DATE		COUNTY COM	PTROLLER	- Name:	<u>~</u>
PAROVED:	Title	2/2/	/	0	//
4/10/00		1/1/00	<u></u>	_ _୍ୟ	12400
OUNTY EXECUTIVE DATE	Date):/		Date:	
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CAPITAL CONTRACT CHANGE ORDER S&WS/dmp									
DATE OF ADVISEMENT CODE TRANSACTION CODE TRANSACTION CODE	CNT	ΓM	PV		8 CONTRACT MAMBER				
_NDOR NAME: SILVERITE CONSTRUCTION	VENDOR IC	VF 11-20	98433						
NE # PROJECT ID: COST OBJ CHANG ORDER ABEA OPROJECT 1 4 29	CRIPTION:								
	<u>- </u>	reman's Training Center C	roundwa						
\$15.250.000.00 +\$131.254.00	CIRCLE	THIS REVISION: \$5,045.00			386,299.00				
ATURE OF CHANGE:	<u> </u>								
•									
Additional labor and material to provide the following:									
1. An air station in the maintenance shop.									
2. Change the pistons on caustic pumps No. 3 & 4.									
					-				
	\$5,045.0				İ				
	con ma	action.							
				Γ	G-36				
ONTRACTOR:	T _		RANT NUM	RED:					
Silvente Const. Co Inc	115 8	SEE ATTACHMENTS	Applicable)		y				
V.P. In Openations TLE: DATE	co	MPTROLLER'S CERTIFI			CERTIFICATE OF ACCEPTANCE				
ECOMMENDED:	1	I hereby certify that an unencumber) INTO NUMIS				
THINKSSIONES TOW DATE		PNCUMBERANCE PUR	POSES/		certify that this document				
5/4/00] /;	ame:			was accepted into NUMIS.				
DATE DATE		COUNTY COMPTROL	LER		Name:				
Stides Stides	.	5/8/00			5/8/00				
UNITY EXECUTIVE DATE	'	Date:			Date: CO-680, 8/91; REV. 10/94				

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CO-680, 8/91; REV. 10/94

COUNTY OF NASSAU, NY	CAPITAL CONTRACT CHANGE ORDER Saws/dmp									
DATE OF ADVISEMENT	ČAP	RANSACTION CO		_	ГМ		RTMENT	8 сонтвуст учиные		
VENDOR NAME: SILVEI	RITE CONSTR	UCTION	VE	NDOR I	DENTIFICATION: VF	11-2098433				
LINE # PROJECTIO: AREA 0PROJ	COST GROUP Z I 4	QQQ OBJ	CHANGE ORDER # 30		reman's Training Cen	ter Groundw	ater Tre	atment Facility		
\$15,250,000.00	+\$136,299		MARK A CIRC	PPRO	THIS REVISION: \$12,004.00			5,398,303.00		
NATURE OF CHANGE:										
					•					
Additional labor and material to provide bypass piping to run onsite influent through the offsite metal precipitation system while offsite influent is run through the bypass to the intermediate wet well. Additionally, this revision will provide insulation on this piping, and previously installed piping train bypass revisions.										
								_		
								_		
			\$12	2,004	.00					
			Cω	est this	Revision					
								0.20		
							[0-38		
CONTRACTOR: SILVER	LTK CONST. C	o. Inc			SEE ATTACHMENTS	GRANT NL	JMBER:			
V.P. of OPineton	×1	7 · 1 - 60		CC	MPTROLLER'S CEI	RTIFICATIO	N;	CERTIFICATE OF		
TITLE:	 	//			I hereby certify that an unend	// .		ACCEPTANCE INTO NUMIS		
COMMISSIONER OF WAY	7	DATE			pelencestutivient to cover to	hir contract is		•		
FORM APPROVED:	11 -	7/17/00	_	i	perdy y		-	I certify that this document was accepted into NUMIS		
COUNTY ATTORNEY		DATE		:	COUNTY COMP	TROLLER		Name:		
COUNTY EXECUTIVE	<u> </u>	DATE	,		Title: 24/00	£	-	7/2/20 Date:		

			U.VISONE-	w	LAMORANA L
COUNTY OF NASSA	U.NY C.PITAL	CONTRAC	CT CHANG_ ORDE	ER	S&WS/dmp
DATE OF ADVISEMENT	DE CWP TRANSACTION OF	CN	TM	PV	6 COMINACT MOMBE
VENDOR NAME:	ILVERITE CONSTRUCTION	VENDOR	VF 11-20	98433	
LINE # PROJECT ID.	OPROJECT 1 4 ØØØ	ORDER #	ireman's Training Center G	roundwate	r Treatment Facility
\$15,250,000.00	PREVIOUS REVISIONS: +\$148,303.00	MARK APPRO CIRCLE	THIS REVISION: \$9,261.00		\$15,407,564.00
NATURE OF CHA	NGE:				
	A182 111 1 221				
	Additional labor and material	to provide the i	following.		
	 Modify the filter sludge pip polymer. 	oing, relocate p	olymer blend feed pump No.	3,and pro	ovide additional
·	2. Repair 3 of the on-site/off-	site BW level s	witches and purchase 4 new	BW level	switches.
					-
		\$9,261.	00 Revision		
(v)					G-39

Gorst Co Tuc ORANT NUMBER: ☐ SEE ATTACHMENTS SID216 COMPTROLLER'S CERTIFICATION **CERTIFICATE OF** DATE DATE ACCEPTANCE Balance FUNCTION OF THE CONTROL OF THE PORT OF THE POR INTO NUMIS certify that this document was accepted into OATE COUNTY COMPTROLLER Name: Title: EXECUTIVE COUNT DATE Date: CO-680, 8/91; REV. 10/94

CAPITAL CONTRACT CHANGE ORDER S&WS/dmp COUNTY OF NASSAU, NY DEPARTMENT TRANSACTION CODE 8 COMPACT NUMBER DATE OF ADVISEMENT CNTM PW VENDOR IDENTIFICATION: VENDOR NAME: 11-2098433 SILVERITE CONSTRUCTION VF CHANGE ORDER # PROJECT IO: COST DESCRIPTION OPROJECT 32 Fireman's Training Center Groundwater Treatment Facility 4 øøø ORIGINAL BID AMOUNT THIS REVISION: PREVIOUS REVISIONS: REVISED AMOUNT: HARK APPRO CIRCLE \$15,250,000.00 +\$157,564.00 \$34,476.00 \$15,442,040.00 NATURE OF CHANGE: Additional labor and material to provide insulation on various piping systems in the Operations Building. \$34,476.00 Cost this Revision 0-40' GRANT NUMBER: LVERITE CONST CO INC ☐ SEE ATTACHMENTS CERTIFICATE OF 9.6-00 COMPTROLLER'S CERTIFICATION; Opensition TITLE: DATE **ACCEPTANCE** RECOMMENDED: INTO NUMIS DATE certify that this document was accepted into COUNTY COMPTROLLER Name: Title: XECUTIVE CO-680, 8/91; REV. 10/94

NUMIS 551 a

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CAPITAL CONTRACT CHANGE ORDER S&WS/dmp COUNTY OF NASSAU, NY TRANSACTION CODE DEPARTMENT DATE OF ADVISEMENT **CNTM** PWVENDOR IDENTIFICATION. VENDOR NAME: 11-2098433 SILVERITE CONSTRUCTION VF PROJECT ID LINE # COST CHANGE ORDER # DESCRIPTION: GROUP OPROJECT Fireman's Training Center Groundwater Treatment Facility 33 ØØØ ORIGINAL BID AMOUNT PREVIOUS REVISIONS THIS REVISION. REVISED AMOUNT: MARK APPRO \$15,250,000.00 +\$192,040.00 \$6,872.00 \$15,448,912.00 **③**+ NATURE OF CHANGE: Additional labor and material to relocate the air stripper influent water flow FIT-251-1, FIT-251-2, FIT-251-3, and the on-site influent flow FIT-220 pressure transmitters from the outside to the inside of the building. \$6,872.00 Cost this Revision 0-41 GRANT NUMBER. (M Applicable) Coust Co Ivi ☐ SEE ATTACHMENTS CERTIFICATE OF <u>.ER'S CERTIFICATION:</u> 11.4.00 DATE 1021 **ACCEPTANCE** I hereby certify that an unencumbered CRECOMMENDED: INTO NUMIS balance sufficient to cover this contract is present in the appropriation to DATE ertify that this document was accepted into NUMIS. UNTY ATTORNEY **COUNTY COMPTROLLER** Title: APPROVED: 12/18/00 cocci Date:

-- 1100 44446161

CO-680, 8/91; REV. 10/94

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CAPITAL CONTRACT CHANGE ORDER COUNTY OF NASSAU, NY DATE OF ADVISEMENT TRANSACTION CODE DEPARTMENT PW VENDOR IDENTIFICATION. 11-2098433 SILVERITE CONSTRUCTION VF PROJECT ID LINE # COST CHANGE ORDER# DESCRIPTION: OPROJECT Fireman's Training Center Groundwater Treatment Facility 34 ØØØ PREVIOUS REVISIONS: THIS REVISION: MARK APPRO CIRCLE REVISED AMOUNT \$15,250,000.00 +\$198,912.00 \$7,080.00 \$15,455,992.00 \odot NATURE OF CHANGE: Additional labor and material to perform the following: 1. Remove and replace five (5) Barish air diaphragm pump control panels. 2. Substitute non-metallic hangers and support material for the specified Metallic materials in the chemical storage and pump areas. \$7,080.00 Cost this Revision (1-47 GRANT NUMBER: CONTRACTOR: ☐ SEE ATTACHMENTS BY: CERTIFICATE OF COMPTROLLER'S CERTIFICATION: -15-02 TITLE: **ACCEPTANCE** I hereby certify that an unencumbered RECOMMENDE INTO NUMIS ertify that this document FORM APPROVED: as accepted into Name: NUMIS. COUNTY ATTORNE COUNTY COMPTROLLER Title:

Date:

EXECUTIVE

CAPITAL CONTRACT CHANGE ORDER LOUDITY OF NASSAU. NY DATE OF ADVISEMENT DEPARTMENT TRANSACTION CODE 8 CONTRACT NUMBER CNTM PW VENDOR IDENTIFICATION: 11-2098433 SILVERITE CONSTRUCTION VF PROJECT ID: COST GROUP CHANGE ORDER # LINE # DESCRIPTION: OPROJECT **18** Fireman's Training Center Groundwater Treatment Facility 35 ØØØ ORIGINAL BID AMOUNT PREVIOUS REVISIONS: THIS REVISION: REVISED AMOUNT: MARK APPRO \$15,250,000.00 +\$205,992.00 \$4,436.00 \$15,460,428.00 • NATURE OF CHANGE: Additional labor and material to perform a supplementary acceptance test of the Netzsch Sludge Filter Press. \$4,436.00 Cost this Revision 0-43GRANT NUMBER: ILVERITE CONST Co INC SEE ATTACHMENTS 10216 **CERTIFICATE OF** COMPTROLLER'S CERTIFICATION: <u>3.26.0</u>2 DATE **ACCEPTANCE** I hereby certify that an unencumbered INTO NUMIS balance sufficient to cover this contract is the appropriation to be Changed. certify that this document accepted into NUMIS. FORM APPROVED: בסוואושע מייים אוווסא COUNTY COMPTROLLER Name Title: APPROVED: APR 2 3 2002 EXECUTIVE Date: Date: CO-580, 8/91; REV. 10/94 NUMIS 551 a

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ELECTRICAL CONTRACTOR CHANGE ORDERS

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	VENOOR HUNE: WELSBA	ACH ELECTRIC			R IDENTIFICATION:	 /F	11-2354	251		
	UNE PROJECT ID.	CROUP I	ORDS	IGE C	ESCRIPTION:	<u></u>				
	1 8,1 0,2	2 1 4 01	00 <u>1</u>		Fireman's	s Train	ning Cent	er		
	ORIGINAL BID AMOUNT	PREVIOUS REVISIONS:		LMAK APPRO CIRCLE					ED AMOUNT:	
	\$1,988,000.00 NATURE OF CHANGE:	Ø.ØØ		O - Ø	\$5,140.0	8Ø ———	-	\$1,	993,140.00	
		Additional l extra work a Treatment Fa	at the Fi							
		1. Install t	emperatu	re swi	tch in the	offsit	e & onsi	te we	ll vaults.	
	 Provide conduit & wire for the relocated eyewash staion in room number 122. 									
	3. Supply disconnect switches for the control & effluent valves.									
					1 00					
				\$5,14	8.00 Revision					
L								E	E7,8 & 11	
-	CONTRACTOR:				SEE ATTACHM	ENTS	GRANT NUN	BER:		
`	C.m		<u> </u>	C	OMPTROLLER	1021 P'S CERT	TE X	<i>j</i> .	CERTIFICATE OF	
	TTLE:	A DAT	Ε	↓ ̄	I hereby certify that			"	ACCEPTANCE	
	Salm () X	VI +5 781	79)		batance synticient t	to cover this	contract la	<i>-</i>	INTO NUMIS	
_	OMMISSIONER, DEV	TOAT	E	(present in the appr	oorietion to	ba Changes			
5	ORM APPROVED	Y 1/ 7	1.100	1 /	Namo:	4	alx		certify that this docume was accepted into NUMS.	
C	OUNTY ATTORNEY	DAT	G148		COUNTY	COMPTP	OUER			
A	PRONED:	7.1 -1	<u> </u>	1	Title:	7			Name:	
co	UNTY EXECUTIVE	<u> </u>	7/98		1/23/	91			7/24/97	
,UM	15 561 a	UAT			Dept6:				Dete: CO-680, 8/91 REV. 1 ()	

- COUNTY OF NASSAU, NY

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DATE OF ADVISEMENT F TRANSACTION COOK	CNTM P\	
VEL-OR NUME	VENDOR IDENTIFICATION:	10,10,2,1
Welsbach Electric	VF11-235425	51
LINE PROJECT ID. COST OBJ CHANCE ORDER		
AREA PROJECT	Fireman's Training Cent	tar
	AK APPRO THIS REVISION:	REVISED AMOUNT:
	CIRCLE	\$2,006,117.00
\$1,988,000.00 +\$5,140.00 C)-[● ·] \$12,977.ØØ	
NATURE OF CHANGE:		
Additional laobr and	material to upgrade panelboads	5
Treatment Facility.	t the Fireman's Training Cente	er.
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COUNTY OF NASSAU, NY

CF TAL CONTRACT CHANGE CODER

2. Visora S&WS/DMP

DATE OF ADVISEMENT 98	FUN C, A	1	ANSACTION O		CN	TM	P\	NEMI.	CONTRACT NUMBER 8 1 0 2 1 E		
VENOOR NAME.	LSBAC	H ELD	CIRIC	V	ENOOR	IDENTIFICATION.	11-23542	51			
	PROJECT OBJ CHANGE ORDER DESCRIPTION: O 2 1 4 000 3 Fireman's Training Center										
ORIGINAL BIO AMOUNT		REVISIONS		CIA	WAX APPRO THIS REVISION: REVISED AMOUNT: \$2,021,612.00						
\$1,988,000.00 NATURE OF CHANGE:	3007777777										
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TITLE:			DATE	-48	<u>C</u>			<u>N:</u>	ACCEPTANCE		
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FORM APPROVED: COUNTY ATTORNEY	also	1 7	BO/	48	P	edeful Tall. Name: COUNTY COMPT	ROLLER	· ·	I certify that this document was accepted into NUMS.		
APPROVED: LUYL / COUNTY EXECUTIVE	tu	- ′-	8/11/	98		Title: 8/6/97 Durie:			Name: ### 1498 Date:		

E. Viscine

CO-680, 8/91; REV. 10/94

COUNTY OF NASSAU, NY	CA	PITAL	CONTR	CAS	CT CHANGE URD	ER	Ss	WS/dmp
		ANSACTION C	CNTM					CONTRACT NUMBER
VENDOR NAME: WELSBA	ACH ELECTRI		VE	NOOR	IDENTIFICATION: VF 11-2	354251		
LINE PROJECT IO:	cost GROUP	ØØØ œu	CHANGE ORDER #	D€	Fireman's Tra	ining Cent	er	
\$1,988,000.00	+\$33,612.0		MARK A	PMO	THIS REVISION: \$22,012.00			3,624.00
NATURE OF CHANGE:						•		
	tional labor and er Operations E		to revise s	ome	of the lighting fixtures in	the Firema	ın's Tr	aining
					,			
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\$22,012.00								
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<u>@</u>								E-2
CONTRACTOR:						GRANT NUM! (# Applicable))	BER:	,
BY: WOOD WOOD TITLE: RECOMMENDED: W		DATE	38	C	OMPTROLLER'S CERTIF	ered	,	ACCEPTANCE
COMMISSIONER, DPW	A Market	1/17/98 DATE	lec)	balance/sufficient to cover this or present in the appropriation to be Name:	optract is a chapped.		INTO NUMIS certify that this document was accepted into NUMIS.
EQUNTY ATTORNEY/ APPROVED:	tu' 1	DATE 12/11/9	V		COUNTY COMPTRO	LLER		L. Loliniya Namo: 1218198

COUNTY OF NASSAU, NY	<u> </u>		ACT	CHANGE (S&W	COVISONQ SI DMP
DATE OF ADVISEMENT 98 C A P TRANSACTION COOSE			NTI	PV		CONTRACT HUMBER 8 1 0 2 1 E	
VENOOR HAME: WELSBACH ELECTRIC			100R 10EM	NFICATION: VF	11-2354	251	
LINE # PROJECT IO: AREA PROJECT	COST OBU	CHANGE ORDER #	DESCR				
1 8 1 0 2	_5	Fireman's Training Center					
ORIGINAL BID AMOUNT	WAK AP CIRCL	2	S REVISION:			REVISED AMOUNT:	
\$1,988,000.00 NATURE OF CHANGE:	0-10	3 ·	48,495.00		\$2,0	192,119.00	
	Additional labor service at the Fi				e electric		
							
<u>ي</u>			,495. a this Re	ØØ rision		[E-4
CONTRACTOR:		i	s	EE ATTACHMENTS	GRANT NUI	MBER:	
BK was war.	11-8-9	æ, -	COM	81021 E PTROLLER'S CE	<u> </u>	N-	CERTIFICATE OF
TITLE:	DATE 1/12/90		l h	ereby certify that an unen	cumbered		ACCEPTANCE INTO NUMIS
COMMISSIONER, DPW	DATE DATE	199	Mar	scent lethe appropriately Welf	no to Commond.	K	i certify that this document was eccepted into NUMIS.
APPROVED:	DATE DATE	78	Title	COUNTY COMP	TROLLER		Lalinens.
COUNTY EXECUTIVE	DATE		Dert	o: / / / /			1218 198 Date:
UMIS 561 a				/ /	•		CO-680, 8/91 REV. 10/9

E. Visore

COUNTY OF NASSAU, NY CAPITAL CON	TRACT CHANGE ORD	DER .	S&WS/dmp			
DATE OF ADVISEMENT OF CAP TRANSACTION CODE	C A P C A P CNTM					
VENDOR NAME: WELSBACH ELECTRIC	VENOOR IDENTIFICATION: VF 11-2	2354251				
LINE # PROJECT IO: COST OBJ CHANG GROUP ORDER	BE DESCRIPTION: Eineman's Tr	aining Center				
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\$1,988,000.00 +\$104,119.00	THIS REVISION: S5,068.00	I	097,187.00			
NATURE OF CHANGE:	<u> </u>					
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Additional labor and material to mod			n's			
Training Center Groundwater Treatm	nent Facility Operations Building					
	·					
			-			
	\$5,068.00					
Cost this Revision						
			E-12			
CONTRACTOR:	SEE ATTACHMENTS	GRANT NUMBER: (V Applicable)				
Cen Manage 12-16-98	COMPTROLLER'S CERT	FICATION;	CERTIFICATE OF			
TITLE: DATE	I hereby certify that an unencum	bered	ACCEPTANCE			
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COUNTY ATTORNEY DATE	COUNTY COMPTRO	DLLER	Name:			
approven: 1/7/95	1/5/59		1/5/49			
COUNTY EXECUTIVE DATE	Date:/		Date: CO-680, 8/91; REV. 10/94			

			C.C. T	Q.W	W)	Ø4660011
COUNTY OF NASSAU, NY CAPITAL CON	NTRAC	T Cł	HANGE ORE	I-C DER	_ '	S&WS/dmp
DATE OF ADVISEMENT: FUND TRANSACTION CODE:			•		RTMENT	CONTRACT NUMBER
<i>Φ3-29-</i> ψ Υ CAP VENDOF NAME:	CNT		IDENTIFICATION:	[F	V	81021E
WELSBACH ELECTRIC OF L.I.				VF	11-235425	1
LINE # PROJECT ID: COST OBJ CHANG		IPTION:				
1 81 0 2 4 ØØØ 7 ORIGINAL BID AMOUNT: PREVIOUS REVISIONS: N	FIRE		TRAINING CENTER		REVISED AMOU	ur.
\$1,988,000.00 +\$109,187.00	CIRCLE +		\$170,579.90)		REVISED AMOU	\$1,926,607.10
NATURE OF CHANGE: A net credit which reconciles a	all remaini	ing ext	ra work and cred	it items.		
E-1 Additional labor and material to furnish and install supplemental fire protection		with the	studge transfer pumps.			speed pickup units associated \$685.90
and associated conduit and wiring.	2,644.30	and over	ill alarm panels	_		or the fuel tank level monitor \$1,076.60
E-9 Additional labor and material to install conduit and wiring for preventive maint devices (limit switches and automatic oilers), for the effluent, backwash and interme	tenance		ditional labor and materia se trailer used by operation		ectric power, ligh	iting, heating and ventilation fo \$9,054.57
and air stripper blowers.	9.870.00		redit for uninstalled telepi	•	•	(\$1,521.26)
E-10 Additional labor and material to install conduit and wiring between control pa an associated flow indicating transmitter and also from local control panel LCP-3 an	NG 2400 17					
1 associated solellow valve and pressure services. E.13. Additional labor and material to repair buried conduit and power feeder cables	s and to	Item No	Description Protection in Level "C"	Bid Quantity	<u>Amount Us</u> \$0.00	
replace a section of fiber optic cable damaged during excavation operations between	1 011511C 0 087 69	? 1	Laboratory Testing	\$7,500.00	\$0.00	(\$15,000 00) (\$7,500 00)
E-14 Additional labor and material to provide, a) An enclosure, devices, conduit and thermostatic control of a heat trace system for extenor piping. b) Conduit repair and	d witing for	.1	Temp Light & Power	\$350,000.00	\$162,128 31	
recycle wet well pump No. 2.	5.264 69	5	Apprentice Training	\$15,000 00	\$0.00	(\$15,000 (0))
					TOTAL NET	CREDIT (\$170,579.90)
Cost this	0,579.90) Revision			GRANT NU	IMPED:	E-20
ONTRACTOR: WELSHIP ELECTRY OF 1.7		SEE A	ATTACHMENTS	(If Applicable)	MBCK.	
JARAN P. KWN. 3/26/04		VIE Pu	131021E W)		CERTIFICATE OF
ITLE: PACK. / GEO . A DATE			OLLER'S CERTIF	CATION	<u>':</u>	ACCEPTANCE
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OMMISSIONER DEVICE TO DATE			Ticlent to cover this countries to be		l.,	ertify that this document
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Same House 4-9-04 DATE	DEP. 14		NTY COMPTROLLE			.0
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PLUMBING CONTRACTOR CHANGE ORDERS

CARITAL CONTRACT CHANGE CODER S&WS/ DMP

						<u> </u>	37 DIMP
DATE OF ADVISEMENT	FUND 1.0	CNTM			PV		CONTRACT NUMBER 8 1 0 2 1 P
VENDOR NAME: JAMES	MCCULLAGH	CO. INC	VENDOR	DENTIFICATION: VF	11-1798	851	
UNE PROJECT ID:	COST						
AREA PROJECTED.	GROUP	OBJ CHAN		SCRIPTION:			
1, 8, 1, 0, 2		ØØØ . 1		Firemen's Training	Center		
ORIGINAL BID AMOUNT	PREVIOUS REVISIONS		MAK APPRO	THIS REVISION:			D AMOUNT:
\$324,670.00	ø.øø	1	CIRCLE	\$2,000.00			5,67Ø.ØØ
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	Additional	labor and	materi	al to do the follo	wing		
				ining Center:	3		
				ouse trap along wi			İ
				for sanitary wast of the Operations		na -	
				lumbing code.	burran	,,	
2. Provide two (2) 2" ball valves, one (1) 2½" ball valve and one (1) 2½ check valve on the piping to							
		rgency wate			F		
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\$2,000.00							
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CONTRACTOR: JAMES	McCulla	GH CO.			GRANT NUM (% Applicable)	BEK:	
BY: AL Koz	<u> </u>						
	2	114/98	C	SIO 211 ST OMPTROLLER'S CERTIF	FICATION	, ·	CERTIFICATE OF
TITLE: PLUJEET MAN	scor	DATE	=			'	ACCEPTANCE
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3/1/1/ (1/ H	J- 2	1j9 196 -		balance sufficient to cover this co	ontract is		INTO NUMIS
COMMISSIONER, DPW	nui co	DATE		present in the appropriation to be	Changed.		·
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COUNTY ATTORNEY	161201/	1/0	I	COUNTY COMPTRO	I I ER		Latin
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	.Visone ,-	CIA	NØ4666072
	TRACT CHANGE ORI	DER '	S&WS/dmp
Q61400 CAP	CNTM	PW	8 confidence aumber
JAMES MCCULLAGH, CO., INC.	VENDOR IDENTIFICATION: VF	1798851	
LINE # PROJECT ID: COST GROUP GROEF IN AREA OPROJECT 1 4 ØØØ 2	DESCRIPTION:	er Groundwate	r Treatment Facility
ORIGINAL BID AMOUNT PREVIOUS REVISIONS: +\$2,000.00	ARK APPRO CIRCLE (\$12,700.00)	RI	\$313,970.00
NATURE OF CHANGE:			
A credit for unused allowance items as	s follows:		
ITEM NO. ITEM	<u>ALLOWANCE</u>	<u>USED</u>	<u>CREDIT</u>
2 Incremental cost for work Protection Level "C"	in \$7,700.00	-0-	\$7,700.00
3 Laboratory Testing Requirements Technical Specifications	\$5,000.00	-0-	\$5,000.00
	(\$12,700.00) Cost this Revision		
(P-26
CONTRACTOR: JAMES McCULLAGH CO., INC.	☐ SEE ATTACHMENTS	GRANT NUMBE	R:
BY: JUHN W. OUKIES, II, VIOE PRES. 6/13/00 TITLE: RECOMMENDED: 4-14-as	COMPTROLLER'S CERT I hereby certify that an unencum balance sufficient to cover this present is the cover this	abered Confirmation	CERTIFICATE OF ACCEPTANCE INTO NUMIS
FORM APPROVED DATE CONTRACTOR CONTRACTO		URPOSES	I certify that this document was accepted into NUMISS
COUNTY EXECUTIVE 7/3/10 0	7//8/V-0	·····	Date: / Oct. 10/94

HVAC CONTRACTOR CHANGE ORDERS

7.T.C. Sile CADW0266652 CAPITAL CONTRACT CHANGE ORDER S&WS/dmp COUNTY OF NASSAU, NY DATE OF ADVISEMENT TRANSACTION CODE DEPARTMENT 8 CONTRACT NUMBER Č Ä°P $Z \mathcal{D}^{1}$ **CNTM** PW VENDOR NAME: VENDOR IDENTIFICATION: 11-2575963 J K B CONTRACTING INC. VF LINE# PROJECT ID: COST CHANGE ORDER # DESCRIPTION: GROUP OPROJECT Fireman's Training Center Groundwater Treatment Facility 1 ØØØ PREVIOUS REVISIONS REVISED AMOUNT: \$595,000.00_ +\$0.00 (\$20,949.00) \$615,948.00 NATURE OF CHANGE: Various Modifications: 1. Modify electric room and process area duct work 2. Modify boiler ignition system 3. Incomplete punch-list item credit (\$20,949.00) Cost this Revision H-1 GRANT NUMBER: (# Applicable) CONTRACTOR: ☐ SEE ATTACHMENTS CERTIFICATE OF COMPTROLLER'S CERTIFICATION: 7/1/02 1021 H contify that an upend TITLE JKB CON Inc **ACCEPTANCE** INTO NUMIS ertify that this document otni betgeco COUNTY COMPTROLLER Name:

APPENDIX C



January 15, 2004

CERTIFICATE OF COMPLETION

CONTRACTOR

Silverite Construction Company, Inc. C.S. 1818 Old County Road West Hicksville, NY 11801

Contract No. S81021-G

PROJECT DESCRIPTION/LOCATION

Fireman's Training Center Groundwater Treatment Facility

THIS IS TO CERTIFY THAT THE WORK PERFORMED UNDER THIS CONTRACT HAS BEEN INSPECTED AND FOUND ACCEPTABLE AS OF December 22, 2003.

RECOMMENDED FOR APPROVAL:

Richard A. Webber, P.E.

Sanitary Engineer IV

Joseph L. Davenport, P.E.

Acting Div. Head of San. & Water Supply

APPROVED AND ACCEPTED:

Peter J. Gerbasi, P.E.

Commissioner of Public Works

JLD:EFV

c: Clerk of Legislature

Comptroller

Division of San. & W.S.

Accounts Unit

Contracts File-Legalities

Bureau of Real Estate & Insurance

April 22, 2004

CERTIFICATE OF COMPLETION

CONTRACTOR
Welsbach Electric Corp., L.I.
300 Newtown Rd.
Plainview, NY 11803

Contract No. S81021-E

PROJECT DESCRIPTION/LOCATION

Fireman's Training Center Groundwater Treatment Facility

THIS IS TO CERTIFY THAT THE WORK PERFORMED UNDER THIS CONTRACT HAS BEEN INSPECTED AND FOUND ACCEPTABLE AS OF __April 15, 2002___.

RECOMMENDED FOR APPROVAL:

Richard A. Webber, P.E.

Sanitary Engineer IV

Joseph L. Davenport, P.E.

Acting Div. Head of San. & Water Supply

APPROVED AND ACCEPTED:

Peter Gerbasi P.E.

Commissioner of Public Works

JLD:EFV

c: Clerk of Legislature

Comptroller

Division of San. & W.S.

Accounts Unit

Contracts File-Legalities

Bureau of Real Estate & Insurance



February 6, 2001

CONTRACTOR

James McCullah Co., Inc. 75 East Bethpage Road Plainview, NY 11803-4201 Att: Mr. John W. Clukies, II, P.E.

CERTIFICATE OF COMPLETION

CONTRACT NO. S81021P

PROJECT DESCRIPTION/LOCATION

Fireman's Training Center, Groundwater Treatment Facility-Plumbing

THIS IS TO CERTIFY THAT THE WORK PERFORMED UNDER THIS CONTRACT HAS BEEN INSPECTED AND FOUND ACCEPTABLE AS OF January 5, 2001.

RECOMMENDED FOR APPROVAL:

Edward F. Visone, Civil Engineer III

Joseph L. Davenport Sanitary Engineer IV

Acting Division Head of Sanitation & Water Supply

JGP:EFV

c: Clerk of Legislature
County Comptroller
Division of S & WS
Accounts Unit
Land Acquisition
Bureau of Real Estate & Insurance

Bonding Company: Liberty Mutual Insurance Company

Att: Mr. Paul Krous

DPW.3196-6/80 Rev. 3/87

APPROVED AND ACCEPTED:

Commissioner of Public Works



August 19, 2002

CERTIFICATE OF COMPLETION

CONTRACTOR

JKB Contracting Inc. 55 North Broadway Hicksville, New York 11801

Contract No. S81021-H

RPROVED AND ACCEPTED:

Commissioner of Public Works

Peter J. Gerbasi, P.E.

PROJECT DESCRIPTION/LOCATION

Fireman's Training Center Groundwater Treatment Facility

THIS IS TO CERTIFY THAT THE WORK PERFORMED UNDER THIS CONTRACT HAS BEEN INSPECTED AND FOUND ACCEPTABLE AS OF _____ July 1, 2002 _____ .

RECOMMENDED FOR APPROVAL:

Edward F. Visone

Asst. Supt. of Sanitary Construction

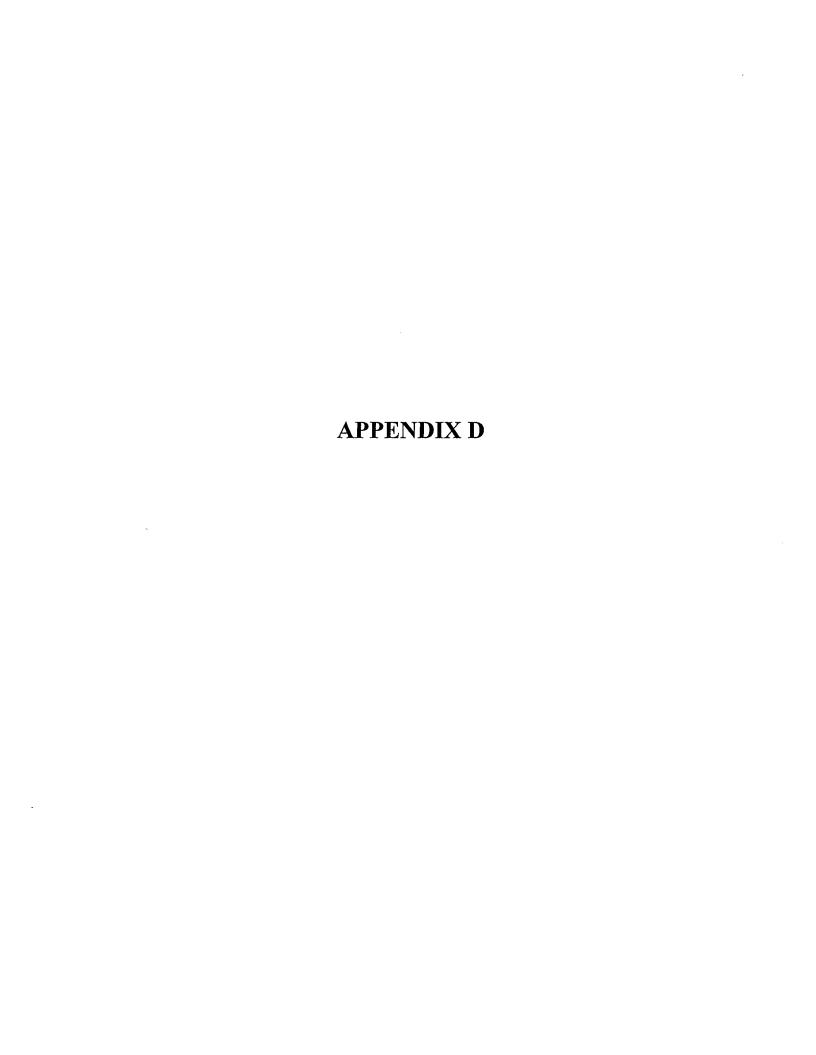
Joseph L. Davenport, P.E.

Acting Div. Head of San. & Water Supply

ЛLD:EFV:ep

c: Clerk of Legislature
Comptroller
Division of San. & W.S.
Accounts Unit
Land Acquisition
Contracts File-Legalities
Bureau of Real Estate & Insurance

Bonding Co. - Monitor Surety Managers Inc.





COUNTY OF NASSAU DEPARTMENT OF PUBLIC WORKS MINEOLA, NEW YORK 11501-4822

N.C.F.T.C. GROUNDWATER REMEDIATION FACILITY SLUDGE FILTER PRESS ACCEPTANCE TEST RESULTS OCTOBER 3, 2001

In an effort to confirm that the Netzsch Filter Press provided by the General Contractor could provide the performance specified by Section 11360 of the contract, a test of the press, using sludge from a different source, was scheduled for October 3, 2001.

Permission was previously obtained from Mr. Carl Hoffman, of the NYSDEC, to use sludge from the Purex Groundwater Remediation for this test. This source was chosen because the facility generates a similar metals sludge, the quantity required was available, and the proximity of the facility.

The sludge was transported to the FTC remediation facility by RGM. Approximately 3,600 gallons of sludge was delivered. This proved to be enough sludge to perform two (2) presses. A hose from the tanker was connected to the sludge handling equipment allowing the sludge transfer pumps to draw the sludge directly from the tanker.

Netzsch was represented by Mr. Tom Madland and Mr. Mark Mikula. After Mr. Mikula returned all control parameters to factory presets the first press was initiated by NCDPW personnel. The sludge was not conditioned in any manner and no polymer was added. Mr. Madland and Mr. Mikula monitored the filter press continuously throughout the entire press. The press was completed without incident. The resultant filter cake was dry and solid. The cake dropped off the plates as they were separated by the filter press. Only minor cleanup would have been required to secure the press. Samples of both the feed sludge and the sludge cake were taken. The percent solids were:

Feed sludge

6.2%

Sludge cake 37.5%

A second press was performed with the remaining sludge from Purex. The press proceeded without incident through the first three cycles. As the press neared the end of the last cycle the

sludge press feed pump increased speed and eventually shut down because of low pressure. Mr. Madland and Mr. Mikula determined that the press was near enough to the end of the last cycle to proceed with opening the press in manual mode. A malfunction of a relay prevented the manual core blow and opening of the press. Mr. Madland made a minor adjustment of the relay, witnessed by Mr. William Tropiano, Plant Maintenance Mechanic II, that allowed the automatic plate shifter to open the filter pack. The first cake was wet and sloppy. This was attributed to feed sludge that was not purged from the core because the core blow was not completed due to the malfunction. The remaining plates were opened exposing filter cake that was dry and solid. The cake dropped off the plates as they were separated by the filter press.

The percent solids were:

Feed sludge 8.9% Sludge cake 43.3%

A subsequent inspection of the sludge press feed pump and in-line static mixer revealed debris clogging the static mixer and feed pump intake line. The debris consisted of plastics, bits of cloth and pop tops from beverage cans. The pump overspeed and low pressure shutdown were the result of the clogged sludge intake line. The processes that generate the metals sludge at both facilities are closed systems therefor the source of the debris had to be the vac truck used for the sludge transfer. A method for the removal of the debris is being devised by plant operations personnel.

In conclusion, the filter press performed as specified in the contract documents. The sludge cake produced, exceeded 35% solids as required.

Nassau County Department of Public Works	ELAP ID# 10862	
Cedar Creek Special Projects Laboratory	Laboratory Analysis Report	
Wantagh NY 11793	Date Prepared: 10/30/2001	Page 1 of 1

The following analytical results have been obtained for the indicated sample that was submitted to this laboratory:

Location Code:

FTCSP22

Sample Description:

FTC-SP-22A

Collection Date:

10/03/01

Collection Time:

10:30

Submittal Date:

10/04/01

Submittal Time:

09:24

Sampler:

TD

Comments:

Raw Sludge from Purey
Sample ID#:

AA13745

Analyte Units Result MDL Method
% Total Solids % 6.2 0.1 SM 18(2540B)

If you have any questions concerning this report contact: Erick Kurz
Vincent Alonge

(516) 571-7353

Nassau County Department of Public Works	ELAP ID# 10862	
Cedar Creek Special Projects Laboratory	Laboratory Analysis Report	
Wantagh NY 11793	Date Prepared: 10/30/2001	Page I of I

The following analytical results have been obtained for the indicated sample that was submitted to this laboratory:

Location Code:

FTCSP23

Sample Description:

FTC-SP-23

Collection Date:

10/03/01

Collection Time:

10:30

Submittal Date:

10/04/01

Submittal Time:

09:24

Sampler:

TD

Comments:

Filtrate		_		
Sample ID#:			AA1374	6
Analyte	Units	Result	MDL	Method
Total Suspended Solids	mg/l	1.0	1.0	SM 17 2540D

If you have any questions concerning this report contact: Erick Kurz Vincent Alonge (516) 571-7353

Nassau County Department of Public Works	ELAP ID# 10862	
Cedar Creek Special Projects Laboratory	Laboratory Analysis Report	
Wantagh NY 11793	Date Prepared: 10/10/2001	Page 1 of 1

The following analytical results have been obtained for the indicated sample that was submitted to this laboratory:

Location Code:

FTCSP30

Sample Description:

FTC-30 SLUDGE CAKE

Collection Date:

10/03/01

Collection Time:

12:00

Submittal Date:

10/04/01

Submittal Time:

09:24

Sampler:

TD

Comments:

Sample ID#:

Analyte Units Result MDL Method

Total Solids % 37.5 0.1 SM 18(2540B)

If you have any questions concerning this report contact: Erick Kurz
Vincent Alonge
(516) 571-7353

Nassau County Department of Public Works	ELAP ID# 10862	
Cedar Creek Special Projects Laboratory	Laboratory Analysis Report	
Wantagh NY 11793	Date Prepared: 10/30/2001	Page 1 of 1

The following analytical results have been obtained for the indicated sample that was submitted to this laboratory:

Location Code:

FTCSP22

Sample Description:

FTC-SP-22A

Collection Date:

10/03/01

Collection Time:

12:45

Submittal Date:

10/04/01

Submittal Time:

09:24

Sampler:

TD

Comments:

Raw sludg	e fro	m Pur	ex	
Sample ID#: /			AA13748	
Analyte	Units	Result	MDL	Method
% Total Solids	%	8.9	0.1	SM 18(2540B)

If you have any questions concerning this report contact: Erick Kurz
Vincent Alonge

(516) 571-7353

Nassau County Department of Public Works	ELAP ID# 10862	
Cedar Creek Special Projects Laboratory	Laboratory Analysis Report	
Wantagh NY 11793	Date Prepared: 10/30/2001	Page 1 of 1

The following analytical results have been obtained for the indicated sample that was submitted to this laboratory:

Location Code:

FTCSP23

Sample Description:

FTC-SP-23

e.

Collection Date:

10/03/01

Collection Time:

12:45

Submittal Date:

10/04/01

Submittal Time:

09:24

Sampler:

TD

Comments:

tiltrate_				
Sample ID#:			AA13749	
Analyte	Units	Result	MDL	Method
Total Suspended Solids	mg/l	BDL	1.0	SM 17 2540D

If you have any questions concerning this report contact: Erick Kurz

Vincent Alonge (516) 571-7353

Nassau County Department of Public Works	ELAP ID# 10862	
Cedar Creek Special Projects Laboratory	Laboratory Analysis Report	
Wantagh NY 11793	Date Prepared: 10/10/2001	Page 1 of 1

The following analytical results have been obtained for the indicated sample that was submitted to this laboratory:

Location Code:

FTCSP30

Sample Description:

FTC-30 SLUDGE CAKE

Collection Date:

10/03/01

Collection Time:

14:15

Submittal Date:

10/04/01

Submittal Time:

09:24

Sampler:

TD

Comments:

Sample ID#:		AA13750				
Analyte	Units	Result	MDL	Method		
% Total Solids	%_	43.3	0.1	SM 18(2540B)		

If you have any questions concerning this report contact: Erick Kurz
Vincent Alonge

(516) 571-7353

THOMAS S. GULOTTA COUNTY EXECUTIVE



JOSEPH G. PECORA, P.E. COMMISSIONER

COUNTY OF NASSAU DEPARTMENT OF PUBLIC WORKS MINEOLA, NEW YORK 11501-4822

September 21, 2001

New York State Department of Environmental Conservation Division of Environmental Remediation Bureau of Hazardous Site Control 625 Broadway Albany, NY 12233

Attn: Carl Hoffman, P.E.

Environmental Engineer II

Re: Filter Press Test

Nassau County Firemen's Training Center, Site #1-30-042

Dear Mr. Hoffman:

As we discussed several months ago, the County has yet to accept the plate and frame filter press at the Fireman's Training Center site due to its inability to produce a consistent dry cake, as per the unit's specifications. The contractor has had the manufacturer out to the site several times to make adjustments, and has sent samples of our iron sludge to the manufacturer's laboratory for testing. Both the manufacturer and the contractor now contend that the problem with the filter press in not meeting the dry cake specification is a site water chemistry issue, not mechanical, and being so, the County should accept the filter press. However, the County is still not convinced that the problem is not mechanical.

As you know, the Purex site in Mitchel Field also uses a plate and frame filter press to dewater their iron sludge, and has had no problems for the past ten years in producing a consistent dry cake. In order to settle the FTC's filter press performance issue, it has been suggested that a sufficient quantity of Purex site sludge be transported to the FTC site for dewatering. If a satisfactory dry cake can be produced with the Purex sludge, the County will accept the FTC filter press.

Before making the arrangements to transport the approximately 2,000 gallons of Purex site sludge to the FTC site, the County is seeking your concurrence with the proposed test and, if you concur, is requesting your approval to move sludge between the two sites.

If you have any questions concerning the above request, please contact me at (516) 571-6970.

Very truly yours,

Peter J. Witkowski

Director of Hazardous Waste Services

PJW:JNW

c: Joseph L. Davenport, Acting Division Head of Sanitation and Water Supply Frank A. Scicchitano, Director of Environmental Construction Frank Amilicia, Assistant Superintendent of Sewage Treatment Plants

New York State Department of Environmental Conservation

Division of Environmental Remediation

Bureau of Hazardous Site Control, 11th Floor 625 Broadway, Albany, New York 12233-7014 Phone: (518) 402-9564 • FAX: (518) 402-9022

Website: www.dec.state.ny.us



October 16, 2001

Peter J. Wikowski Director of Hazardous Waste Services County of Nassau Department of Public Works Mineola, New York 11501-4822

Dear Mr. Witkowski:

Re: Plate and Frame Filter Press Test (site code #130042)

I am responding to your letter of September 21, 2001, regarding the County not having accepted the plate and frame filter press at the Nassau County Fireman's Training Center (FTC) due to a question of the units performance. The manufacturer and contractor have asserted that the problem is related to the nature of the sludge, and not their press. The solution that you have proposed is to run a test batch of iron sludge, which is known to de-water well from the Purex - Mitchell Field site on the FTC press. If that sludge performs well on the press, the County will accept the press.

Knowing that sludge de-watering characteristics can vary widely from past municipal wastewater treatment experience, I agree that your proposed pilot test of 2,000 gallons is a conclusive way to determine whether the problem is related to the press or the sludge.

My understanding is that the iron sludge is non-hazardous, and I concur with your request to perform the test provided that you document that the Purex iron sludge is not a hazardous material prior to transporting it.

I am anxious to learn the results of you pilot test, and in the meantime, if you have any questions, please feel free to contact me at (518) 402-9564.

Sincerely.

Carl Hoffman P.E.

Environmental Engineer 2
Western Investigation Section

Bureau of Hazardous Site Control